

FIG. 1

FIG. 1A

1 tcttctaccatctgtctccccaggggctgctgctgtgcacttgggtcctggagccctctccaccggatagattcctcacccttggcccgctttg  
101 ccccccctactctgtccagagtgcaagagcctaagccgctccatggccccaggaaggattcaggggagagggcccaaacagggagccagccagcca  
-20 -10  
MetGluLeuThrGluLeuLeuValValMetLeuLeuLeuThrAlaArgLeuThrLeuSerSerProAlaProProAlaCysAsp  
201 gacaccccgccagaATGGAGCTGACTGAATTGCTCCTCGTGGTCACTGCTTCTCTAACTGCAAGGCTAACGCTGTCCAGCCCGCTCCTCCTCTGTG  
10 20 30 40  
LeuArgValLeuSerLysLeuLeuArgAspSerHisValLeuHisSerArgLeuSerGlnCysProGluValHisProLeuProThrProValLeuLeu  
301 ACCTCCGAGTCTCAGTAACTGCTTGTGACTCCCATGTCTTACAGCAGACTGAGCCAGTGCAGAGGTTACACCTTTGCTTACACTGTCTCTGCT  
50 60 70  
ProAlaValAspPheSerLeuGlyGluTrpLysThrGlnMetGluGluThrLysAlaGlnAspIleLeuGlyAlaValThrLeuLeuLeuGlyVal  
401 GCCTGCTGTGGACTTTAGCTTGGGAGAAATGGAACCCAGATGGAGGAGACCAAGGCACAGGACATTCTGGGAGCAGTGACCCTTCTGCTGGAGGACTG  
80 90 100  
MetAlaAlaArgGlyGlnLeuGlyProThrCysLeuSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeuLeuGlyAlaLeuGlnSerLeuLeu  
501 ATGGCAGCAGCGGACAACCTGGGACCCACTTGCCTCTCATCCCTCTGGGACAGCTTTCTGGACAGGTCCGCTCTCTCTTGGGCCCCGACAGGCTCC  
110 120 130 140  
GlyThrGlnLeuProProGlnGlyArgThrThrAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisLeuLeuArgGlyLysValArgPhe  
601 TTGGAACCCAGCTTCTCCACAGGCGAGGACCACAGCTCACAAGGATCCCAATGCCATCTTCTGAGCTTCCAACACCTGCTCCGAGGAAAGGTGCTTT  
150 160 170  
LeuMetLeuValGlyGlySerThrLeuCysValArgArgAlaProProThrThrAlaValProSerArgThrSerLeuValLeuThrLeuAsnGluLeu  
701 CCTGATGCTTGTAGGAGGGTCCACCCTCTGCGTCAGGCGGGCCCCACCCACACAGCTGTCCCCAGCAGAACCTCTCTAGTCTCACACTGAACGAGCTC  
180 190 200  
ProAsnArgThrSerGlyLeuLeuGluThrAsnPheThrAlaSerAlaArgThrThrGlySerGlyLeuLeuLysTrpGlnGlnGlyPheArgAlaLysIle  
801 CCAACAGGACTTCTGGATTGTTGGAGACAACTTCACTGCTCAGCCAGAACTACTGGCTCTGGGCTTCTGAAGTGGCAGCAGGGATTACAGGCCAAGA  
210 220 230 240  
ProGlyLeuLeuAsnGlnThrSerArgSerLeuAspGlnIleProGlyTyrLeuAsnArgIleHisGluLeuLeuAsnGlyThrArgGlyLeuPhePro  
901 TTCCTGGTCTGTGAACCAAACTCCAGGTCCTGGACCAAATCCCGGATACCTGAAACAGGATACACGAACTCTTGAATGGAACCTGTGGACTCTTTCC  
250 260 270  
GlyProSerArgArgThrLeuGlyAlaProAspIleSerSerGlyThrSerAspThrGlySerLeuProProAsnLeuGlnProGlyTyrSerProSer  
1001 TGGACCTTCACGAGGACCTAGGAGCCCGGACATTCTCAGGAACATCAGACAGGCTCCCTGCCACCAACCTCCAGCCTGGATATTCTCTCTCC  
280 290 300  
ProThrHisProProThrGlyGlnTyrThrLeuPheProLeuProProThrLeuProThrProValValGlnLeuHisProLeuLeuProAspProSerAla  
1101 CCAACCATCTCTCTACTGGACAGTATACGCTCTTCCCTCTTCCACCCACTTGGCCACCCCTGTGGTCCAGCTCCACCCCTGCTTCTGACCTTCTG  
310 320 330  
ProThrProThrProThrSerProLeuLeuAsnThrSerIleThrHisSerGlnAsnLeuSerIleGlnGly  
1201 CTCCAAGCCCCACCCCTACCAGCCCTCTTCTAACACATCTACACCCACTCCAGAACTGTCTCAGGAAGGGTAAGgttctcagacactgccgacatc  
1301 agcattgtctcatgtacagctcccttccctgcagggcgccctgggagacaactggacaagatttctacttttctcctgaaacccaagccctggtaaaa  
1401 gggatcacacaggactgaasaggggaatcatttttctactgtacattataaaccttcagaagctatttttttaagctatcagcaatactcatcagagcagcta  
1501 gctcttttgggtctattttctgcagaaatttgcaactcactgattctctacatgctcttttctgtgataactctgcaaggccctgggctggcctggcagtt  
1601 gaacagagggagagactaaccttgagtcagaaaaacagagaagggaatttcttcttgcattcaattcaaggccttccaagcccccatcccttttactat  
1701 cattctcagtgaggactctgatcccatattcttaacagatctttactcttgagaatgaataagctttctctcagaaaaaataaataaataaataaataa

FIG. 1B

FIG. 1A

1 tcttctaccatctgctccccagagggctgcctgtgtgcaactgggtcctggagcccttctccacccggatagattcctcaccccttgccccgcctttg

101 cccccaccctactctgccccagaagtgaagagcctaagccgctccatggccccaggaaggattcaggggagagggccccaaacagggagccacgccagcca

201 gacacccccggccagaATGGAGCTGACTGAATTGCTCCTCGTGGTCATGCTTCTCCTAACTGCAAGGCTAACGGCTGTCCAGCCCCGGCTCCTCGCTTGTG

301 ACCTCCGAGTCCCTCAGTAAACTGCTTCGTGACTCCCATGTCTCTCACAGCAGACTGAGCCAGTGCCAGAGGTTACACCTTTGCTGTCTGCT

401 GCCTGCTGTGGACTTTAGCTTGGGAGAAATGGAAACCCAGATGGAGGAGACCAAGGCACAGGACATTCTGGGAGCAGTGACCCCTTCTGCTGGAGGGAGTG

501 ATGGCAGCACGGGGACAACACTGGGACCCACTTGCCCTCTCATCCCTCCTGGGCAGCTTCTGGACAGGTCCGTCTCCTTTGGGGCCCTGCAGAGCCTCC

601 TTGGAACCCAGCTTCTCCACAGGGCAGGACCACAGCTCACAAAGGATCCCAATGCCATCTTCTCTGAGCTTCCAACACCTGCTCCGAGGAAAGGTGCGTTT

701 CCTGATGCTTGTAGGAGGGTCCACCCCTCTGCGTCAGGGGGGGCCCCACCCACCACACAGCTGTCCCCAGCAGAACCTCTCTAGTCTCACAACCTGAACGAGCTC

801 CCAAACAGGACTTCTGGATTGTTGGAGACAAACTTCACTGCCTCAGCCAGAACTACTGGCTCTGGGCTTCTGAAGTGGCAGCAGGGATTTCAGAGCCAAGA

MetGluLeuThrGluLeuLeuLeuValMetLeuLeuLeuThrAlaArgLeuLeuThrLeuSerSerProAlaProProAlaCysAsp

LeuArgValLeuSerLysLeuLeuArgAspSerHisValLeuHisSerArgLeuSerGlnCysProGluValHisProLeuProThrProValLeuLeu

ProAlaValAspPheSerLeuGlyGluTrpLysThrGlnMetGluGluThrLysAlaGlnAspIleLeuGlyAlaValThrLeuLeuGluGlyVal

MetAlaAlaArgGlyGlnLeuGlyProThrCysLeuSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeuLeuGlyAlaLeuGlnSerLeuLeu

GlyThrGlnLeuProProGlnGlyArgThrThrAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisLeuLeuArgGlyLysValArgPhe

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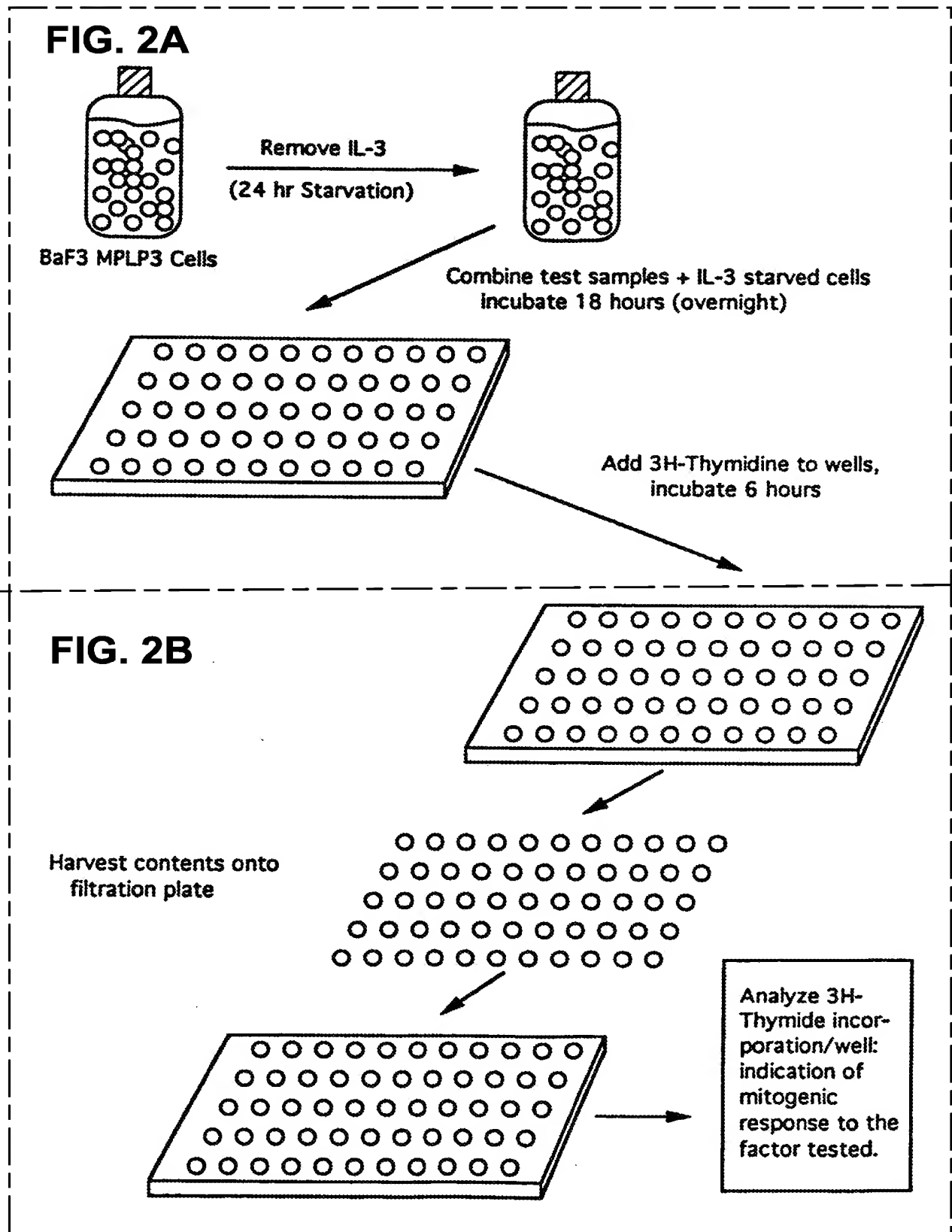
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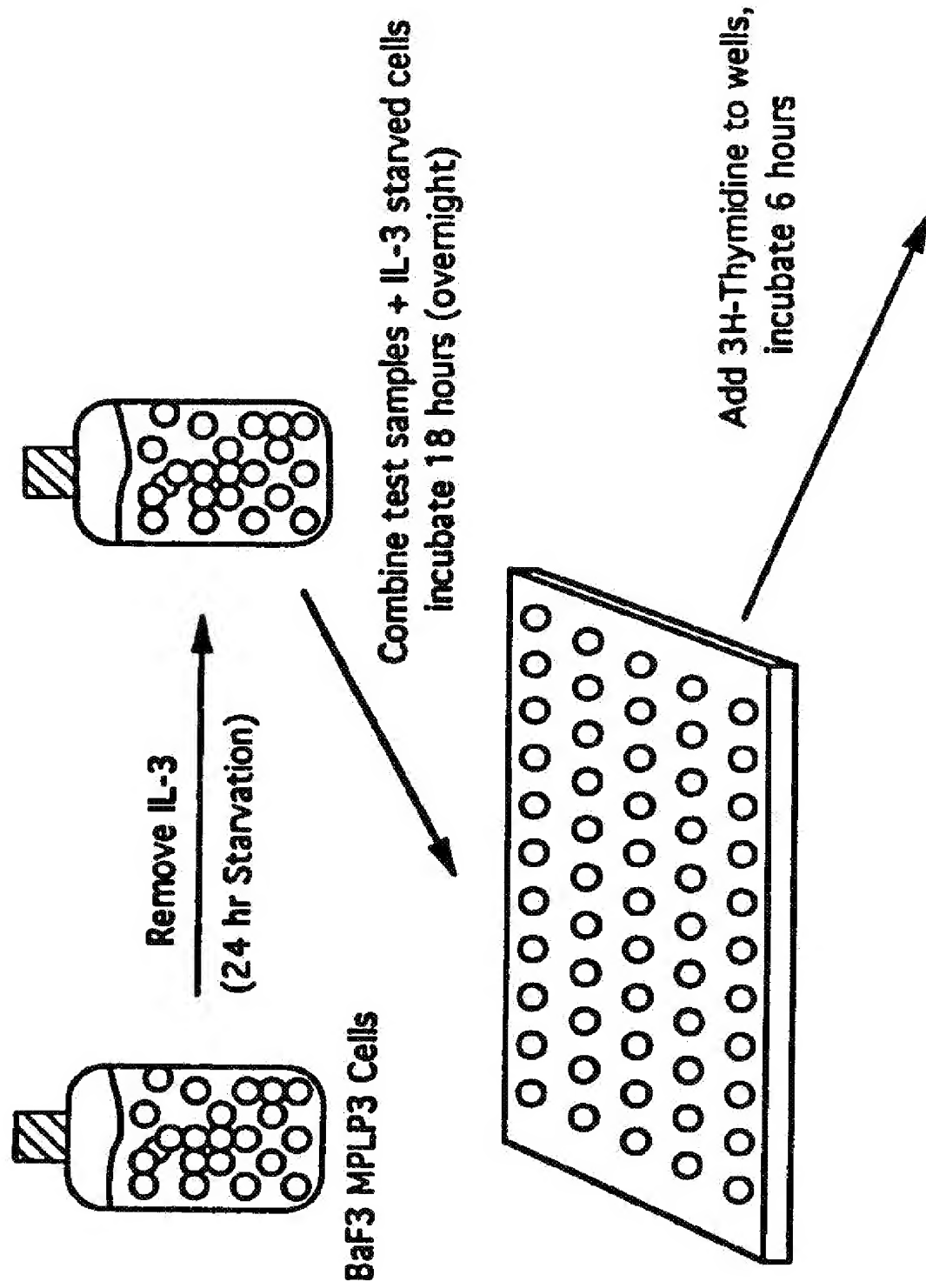
FIG. 1B

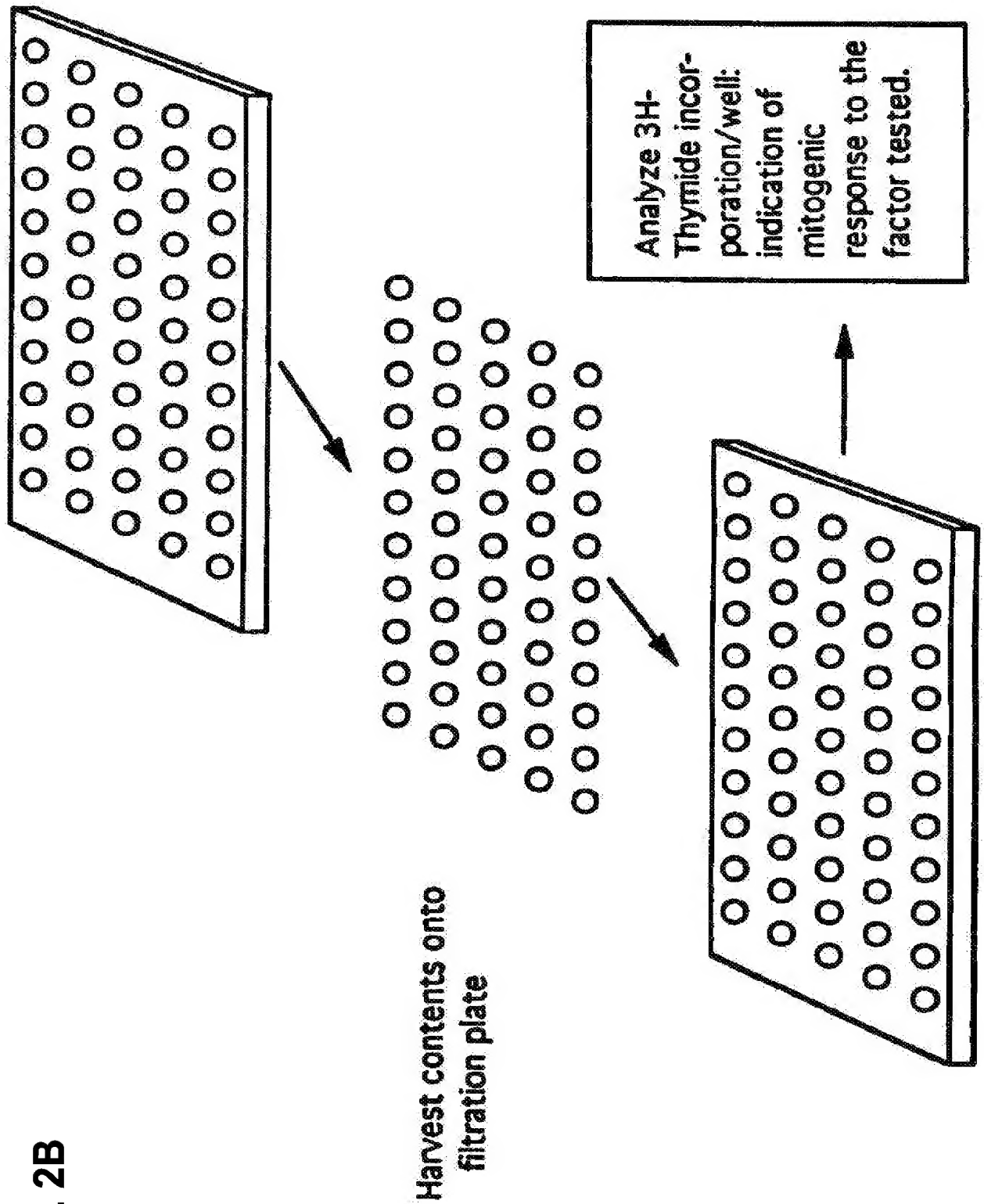
	210	220	230	240
901	ProGlyLeuLeuAsnGlnThrSerArgSerLeuAspGlnIleProGlyTyrLeuAsnArgIleHisGluLeuLeuAsnGlyThrArgGlyLeuPhePro			
	TTCTGGTCTGCTGAACCAACCTCCAGGTCCTGGACCAATCCCGGATACCTGAACAGGATACAGAACTCTTGAATGGAACTCGTGGACTCTTTCC			
	250	260	270	
1001	GlyProSerArgArgThrLeuGlyAlaProAspIleSerSerGlyThrSerAspThrGlySerLeuProProAsnLeuGlnProGlyTyrSerProSer			
	TGGACCCCTCAGCGAGGACCCCTAGGAGCCCCGGACATTTCCTCAGGAACATCAGACACAGGCTCCCTGCCACCCCAACCTCCAGCCTGGATATTCTCCTTCC			
	280	290	300	
1101	ProThrHisProProThrGlyGlnTyrThrLeuPheProLeuProProThrLeuProThrProValValGlnLeuHisProLeuLeuProAspProSerAla			
	CCAAACCCATCCTCTACTGGACAGTATACGCTCTTCCCTCTTCCACCCACCTTGCCCCACCCCTGTGGTCCAGCTCCACCCCTGCTTCTCTGACCCCTTCTG			
	310	320	330	
1201	ProThrProThrProThrSerProLeuLeuAsnThrSerTyrThrHisSerGlnAsnLeuSerGlnGluGly			
	CTCCAACGCCACCCCTACCAGCCCTCTTCTAAACACATCCTACACCCACTCCAGAAATCTGTCTCAGGAAGGTAAGTTCTCAGACACTGCCGACATC			
1301	agcattgtctcatgacagctcccttccctgcaggggccctgggagacaaactggacaagatttccctactttctcctgaaacccaaagccctggtaaaa			
1401	gggatacacaggactgaaaaggggaatcattttcactgtacattataaaccttcagaagctattttttaagctatcagcaatactcatcagagcagcta			
1501	gctctttggtctattttctgcagaaaatttgcaactcactgattctctacatgctctttttctgtgataaactctgcaaaagccctgggctggcctggcagtt			
1601	gaacagagggagagactaaccttgagtcagaaaaacagagaaaagggtaatctcctttgcttcaaatcaaggccctccaacgcccccatccccctttactat			
1701	cattctcagtgaggactctgatcccatattcttaacagatctttactcttgagaaaatgaataagctttctctcagaaaaaaataaaaaaa			

**FIG. 2**



**FIG. 2A**





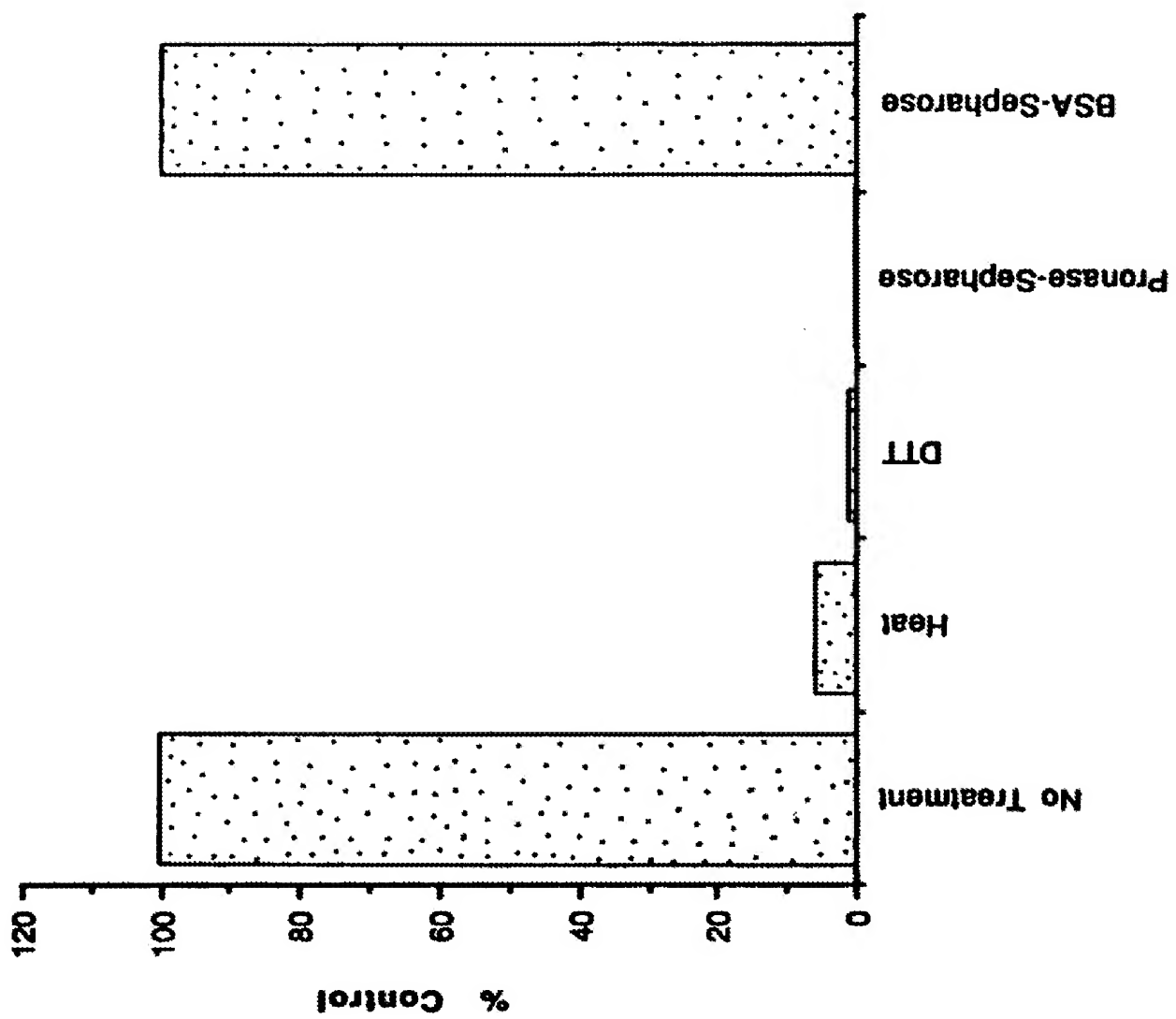


FIG. 3

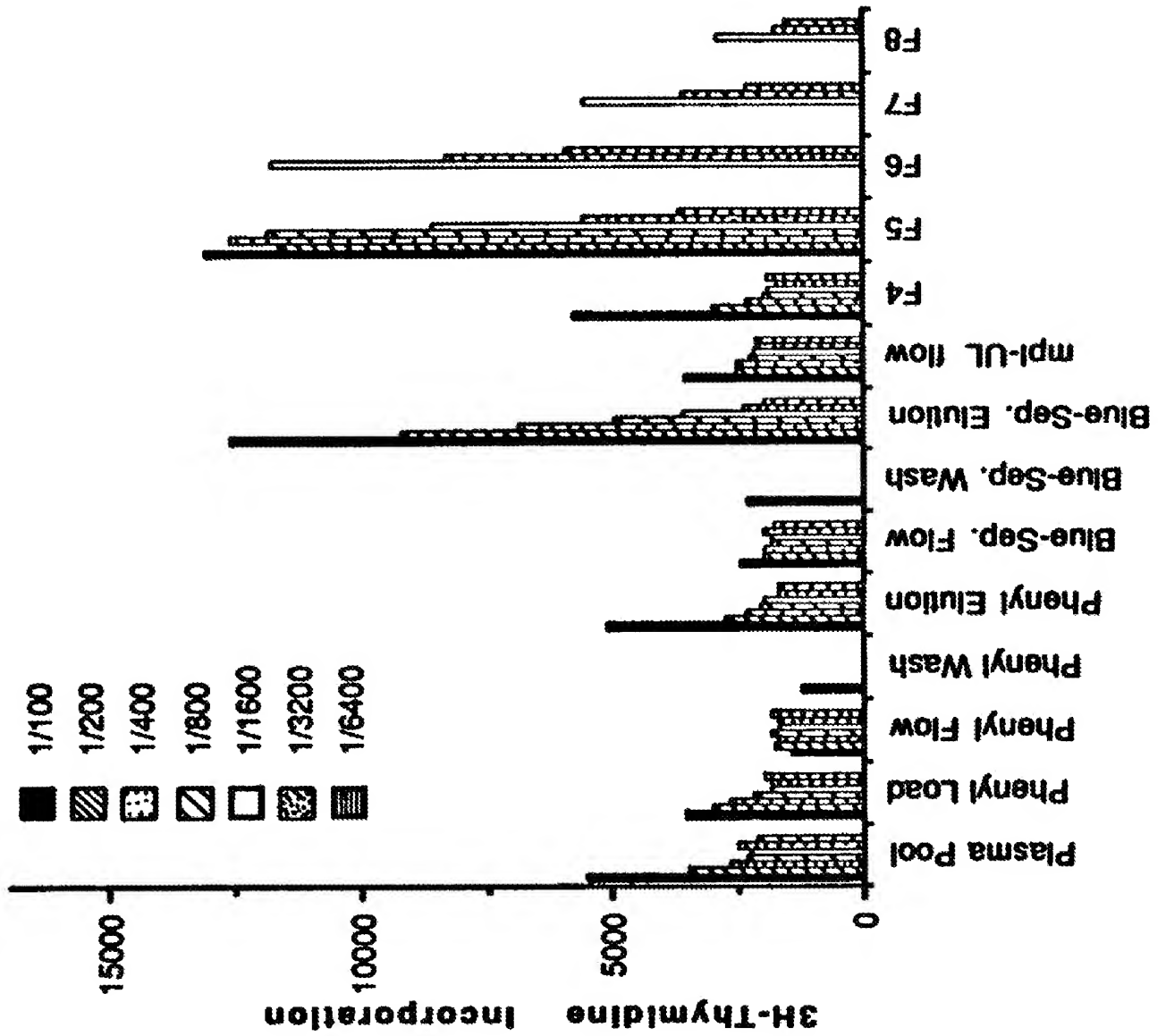


FIG. 4



**FIG. 5**

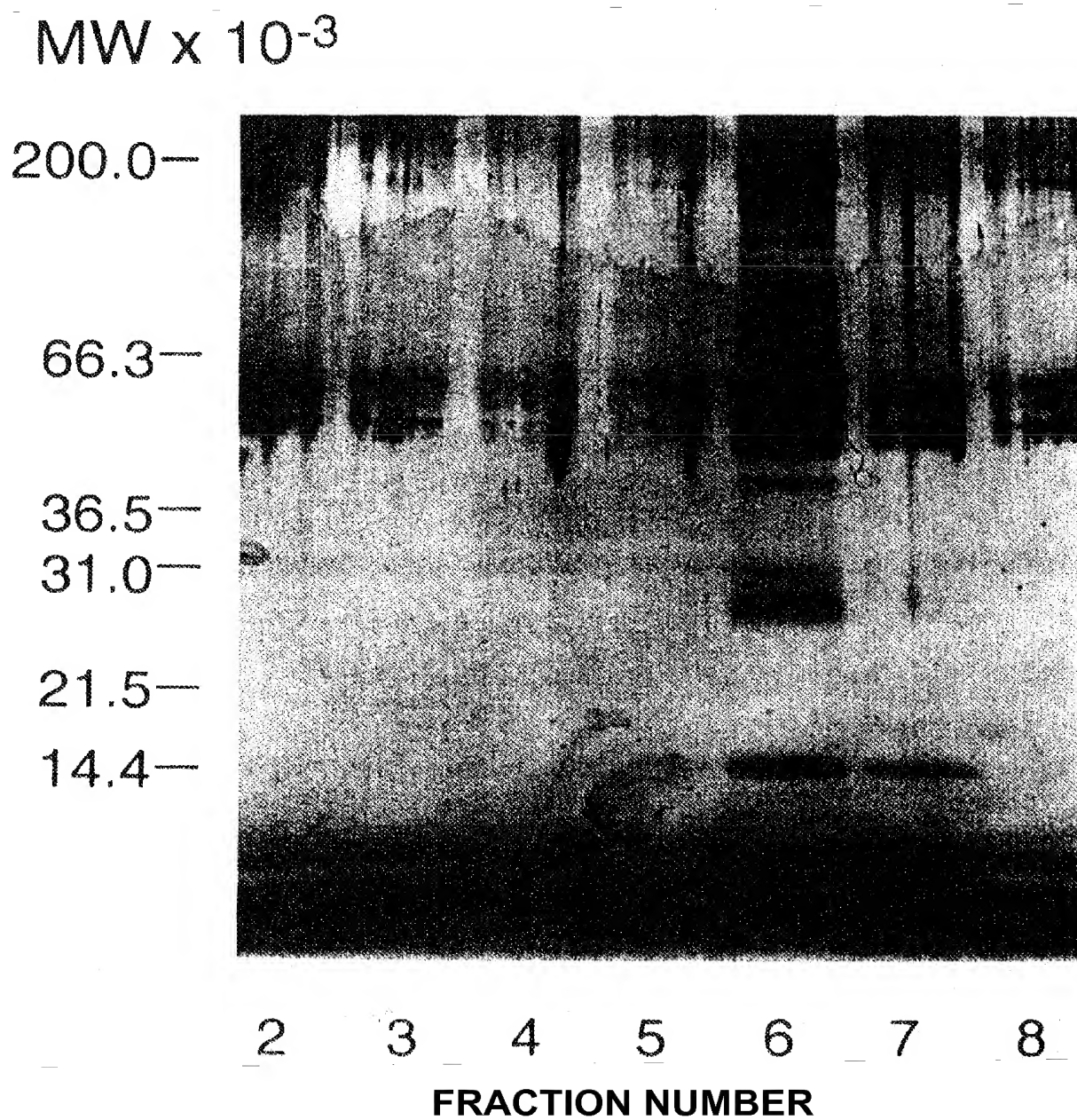
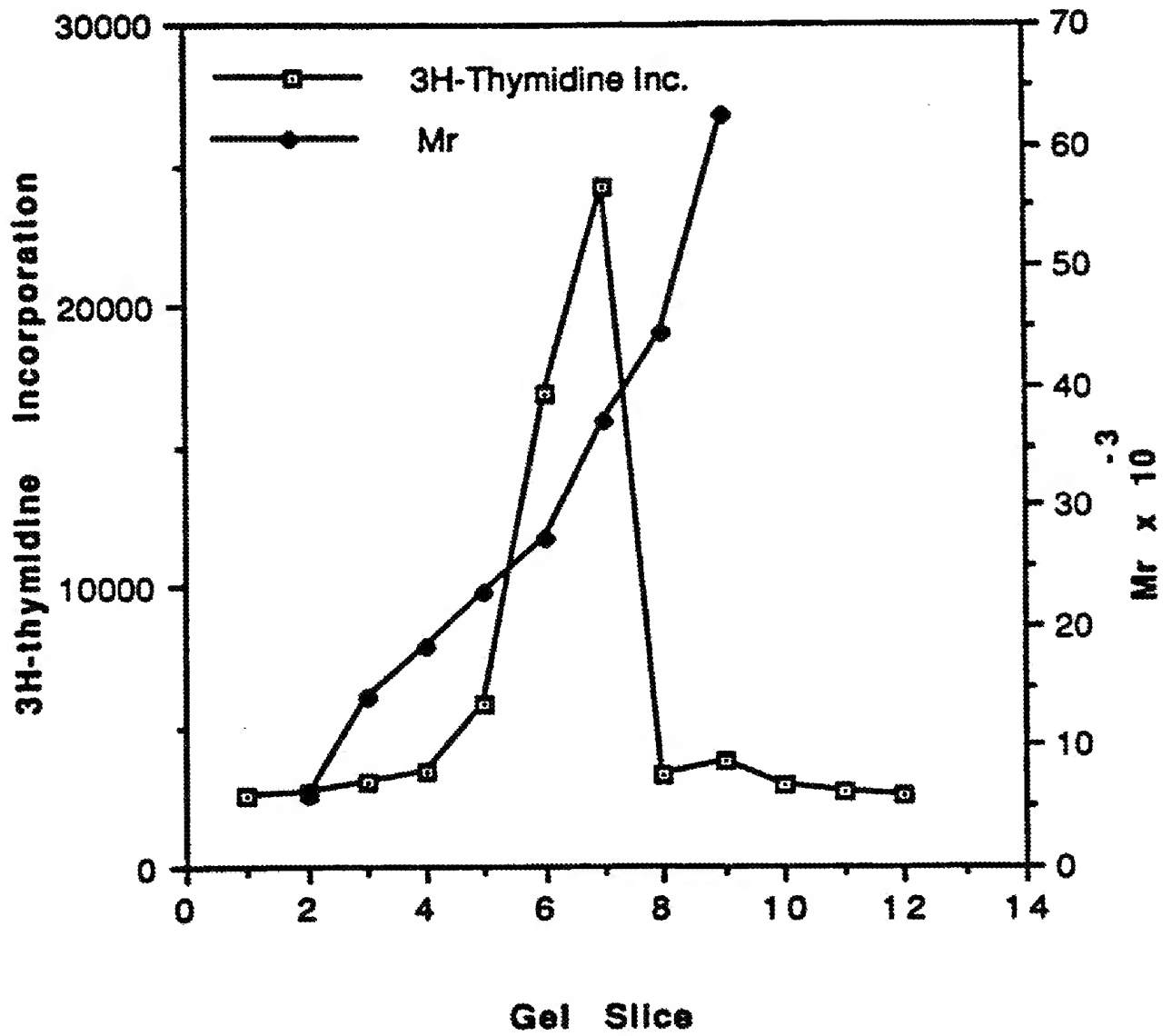
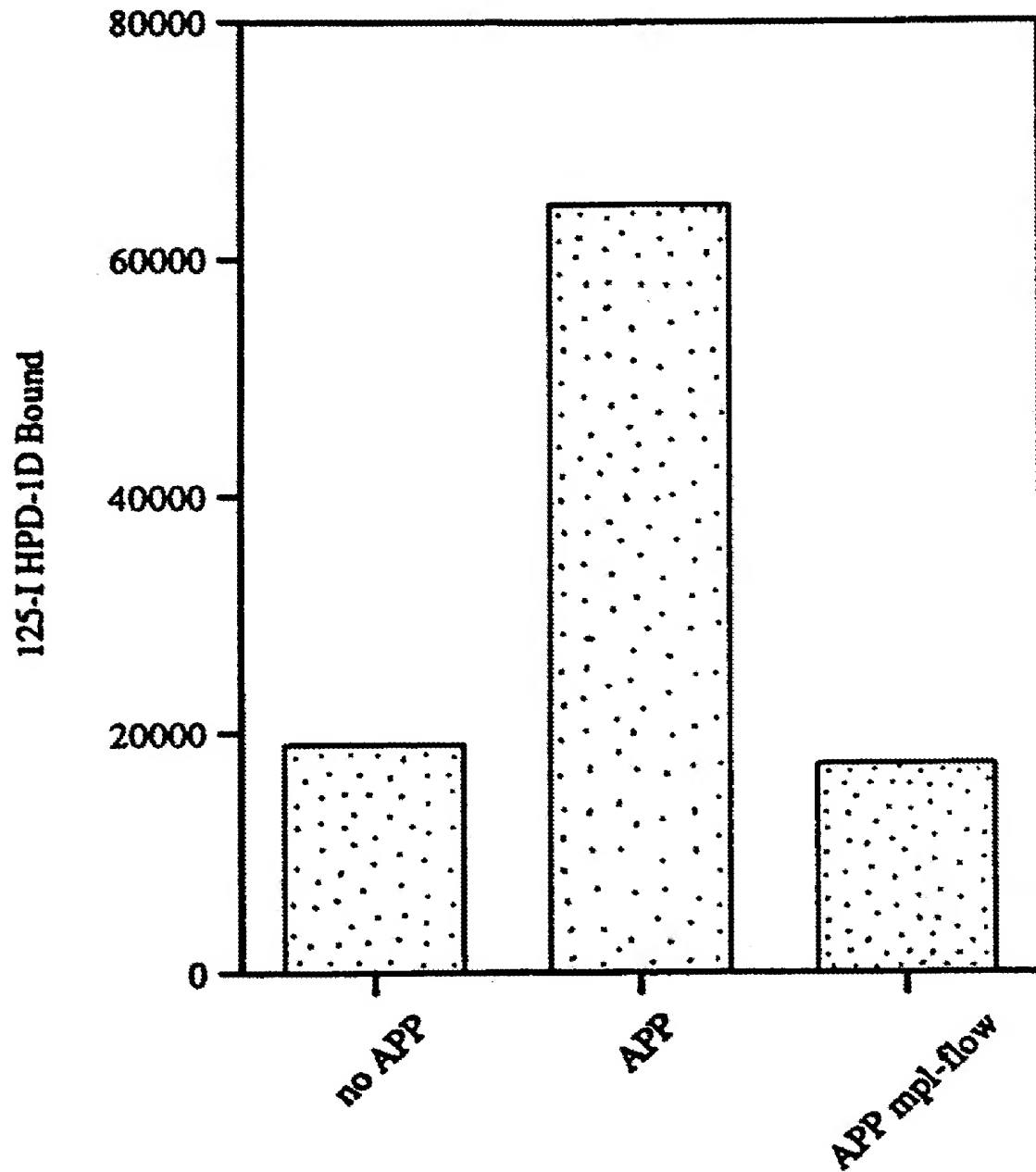


FIG.6



**FIG. 7**



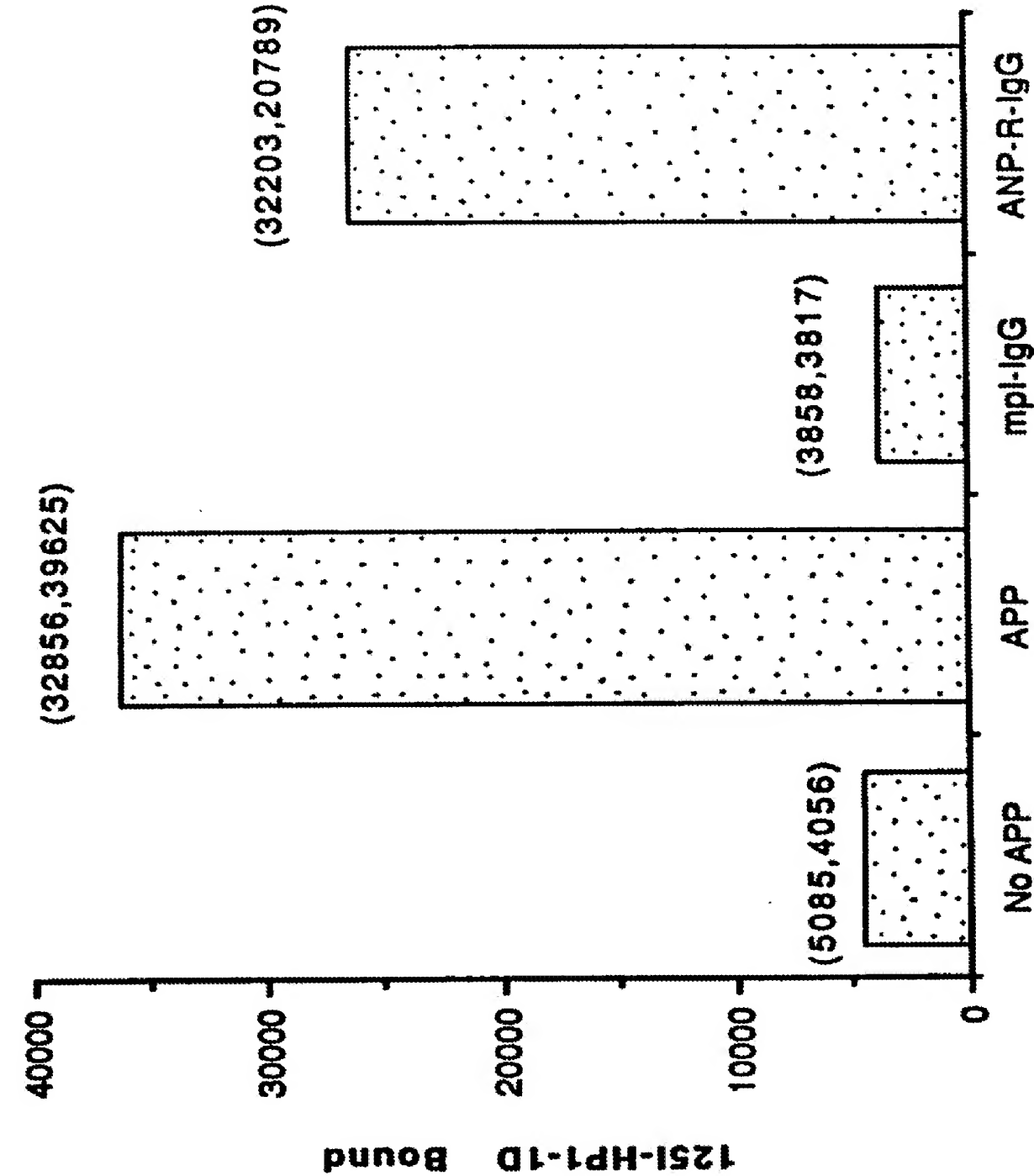
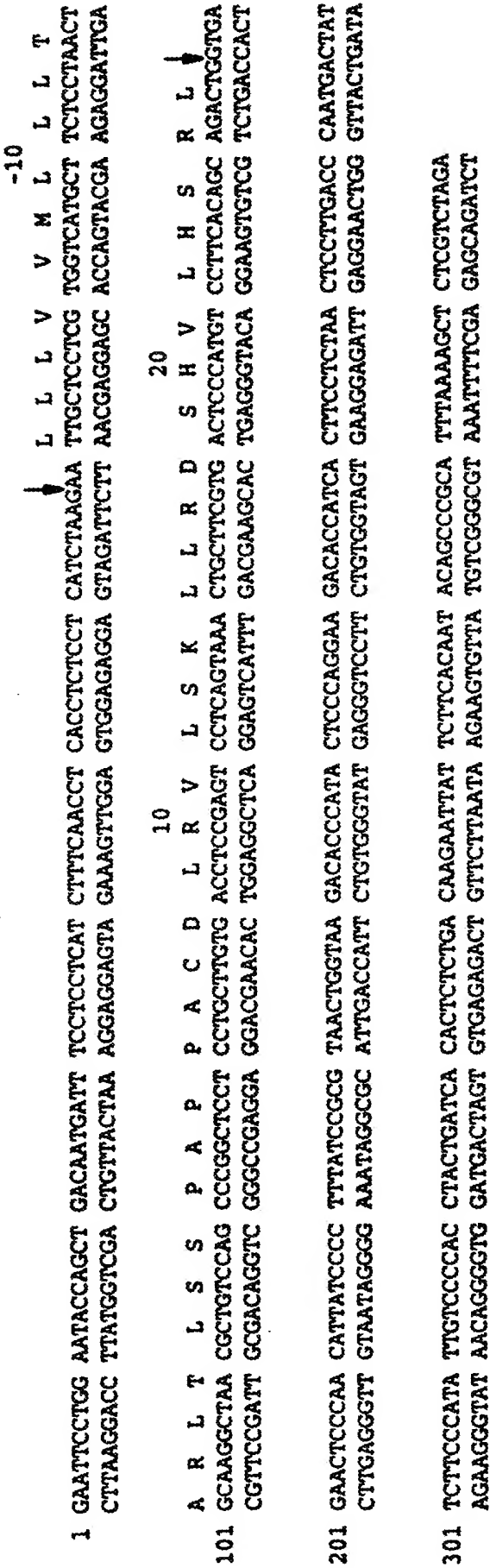


FIG. 9





**FIG. 11**

**FIG.11A**

hML	1	S P A P P A C D L R V L S K L L R D S H V L H S R L S Q C P E V H P L P T P V L L P A V D F S L G E
hML2	1	S P A P P A C D L R V L S K L L R D S H V L H S R L S Q C P E V H P L P T P V L L P A V D F S L G E
hML3	1	S P A P P A C D L R V L S K L L R D S H V L H S R L S Q C P E V H P L P T P V L L P A V D F S L G E
hML4	1	S P A P P A C D L R V L S K L L R D S H V L H S R L S Q C P E V H P L P T P V L L P A V D F S L G E

hML	51	W K T Q M E E T K A Q D I L G A V T L L L E G V M A A R G Q L G P T C L S S L L G Q L S G Q V R L L
hML2	51	W K T Q M E E T K A Q D I L G A V T L L L E G V M A A R G Q L G P T C L S S L L G Q L S G Q V R L L
hML3	51	W K T Q M E E T K A Q D I L G A V T L L L E G V M A A R G Q L G P T C L S S L L G Q L S G Q V R L L
hML4	51	W K T Q M E E T K A Q D I L G A V T L L L E G V M A A R G Q L G P T C L S S L L G Q L S G Q V R L L

hML	101	L G A L Q S L L G T Q L P P Q G R T T A H K D P N A I F L S F Q H L L R G K V R F L M L V G G S T L
hML2	101	L G A L Q S L L G T - - - - Q G R T T A H K D P N A I F L S F Q H L L R G K V R F L M L V G G S T L
hML3	101	L G A L Q S L L G T Q L P P Q G R T T A H K D P N A I F L S F Q H L L R G K - D F W - I V G D K L H
hML4	101	L G A L Q S L L G T - - - - Q G R T T A H K D P N A I F L S F Q H L L R G K - D F W - I V G D K L H

hML	151	C V R R A P P T T A V P S R T S L V L T L N E L P N R T S G L L E T N F T A S A R T T G S G L L K W
hML2	147	C V R R A P P T T A V P S R T S L V L T L N E L P N R T S G L L E T N F T A S A R T T G S G L L K W
hML3	149	C L S Q - - - - - N Y W L - - - - - W A S E V A A G I Q S Q D S W S A E P N L Q - -
hML4	145	C L S Q - - - - - N Y W L - - - - - W A S E V A A G I Q S Q D S W S A E P N L Q - -

hML	201	Q Q G F R A K I P G L L N Q T S R S L D Q I P G Y L N R I H E L L N G T R G L F P G P S R R T L G A
hML2	197	Q Q G F R A K I P G L L N Q T S R S L D Q I P G Y L N R I H E L L N G T R G L F P G P S R R T L G A
hML3	179	V P G P N P R I P - - - E Q D T R T L E W N S W T L S W T L T Q D P R S P G H F L R N I R H R L P A
hML4	175	V P G P N P R I P - - - E Q D T R T L E W N S W T L S W T L T Q D P R S P G H F L R N I R H R L P A

hML	251	P D I S S G T S D T G S L P P N L Q P G Y S P S P T H P P T G Q Y T L F P L P P T L P T P V V Q L H
hML2	247	P D I S S G T S D T G S L P P N L Q P G Y S P S P T H P P T G Q Y T L F P L P P T L P T P V V Q L H
hML3	226	T Q - - - - - P P A W I F S F P - - - - N P S S Y W T V Y A L P S S - - - - -
hML4	222	T Q - - - - - P P A W I F S F P - - - - N P S S Y W T V Y A L P S S - - - - -

hML	301	P L L P D P S A P T P T P T S P L L N T S Y T H S Q N L S Q E G
hML2	297	P L L P D P S A P T P T P T S P L L N T S Y T H S Q N L S Q E G
hML3	251	T H L A H P C G P A P P P A S - - - - -
hML4	247	T H L A H P C G P A P P P A S - - - - -

**FIG.11B**

FIG. 11A

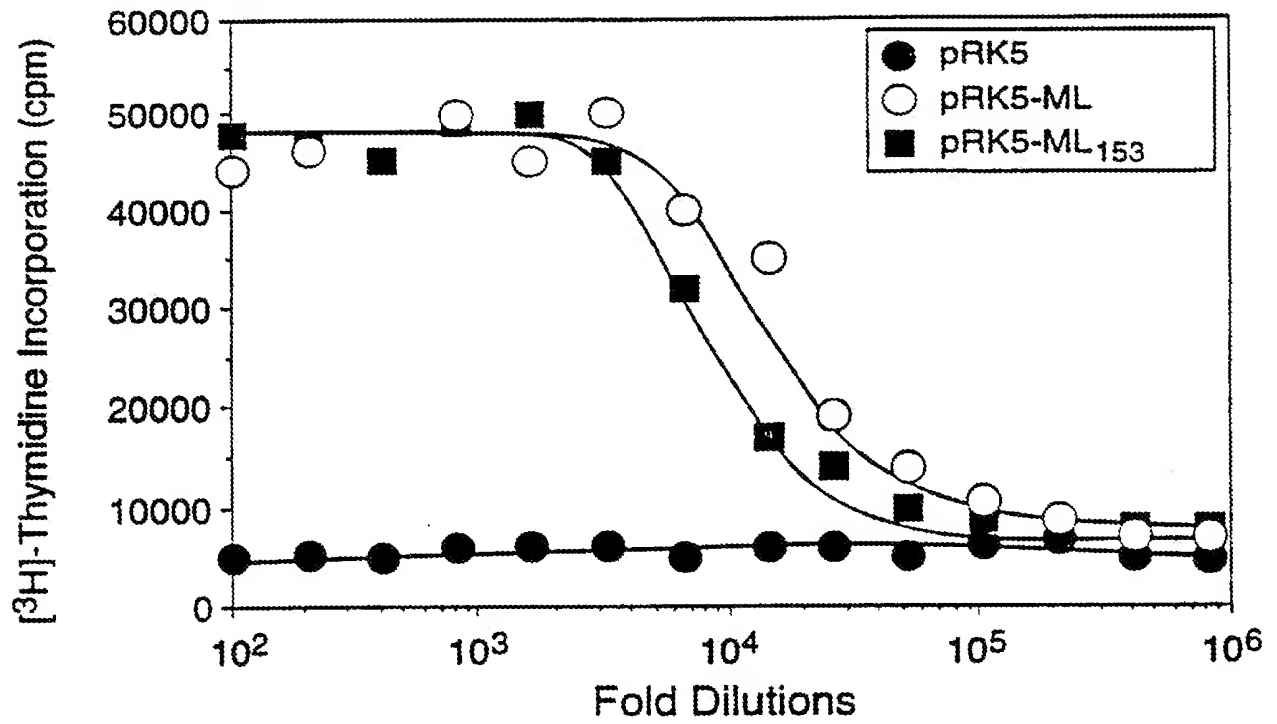
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hML2	1	SPAPPACDLRVLSKLLRDSHVLSRLSQCPEVHPLPTPVLLPAVDFSLGE
hML3	1	SPAPPACDLRVLSKLLRDSHVLSRLSQCPEVHPLPTPVLLPAVDFSLGE
hML4	1	SPAPPACDLRVLSKLLRDSHVLSRLSQCPEVHPLPTPVLLPAVDFSLGE
hML	51	WKTQMEETKAQDILGAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQVRLL
hML2	51	WKTQMEETKAQDILGAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQVRLL
hML3	51	WKTQMEETKAQDILGAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQVRLL
hML4	51	WKTQMEETKAQDILGAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQVRLL
hML	101	L G A L Q S L L G T Q L P P Q G R T T A H K D P N A I F L S F Q H L L R G K V R F L M L V G G S T L
hML2	101	L G A L Q S L L G T . . . Q G R T T A H K D P N A I F L S F Q H L L R G K V R F L M L V G G S T L
hML3	101	L G A L Q S L L G T Q L P P Q G R T T A H K D P N A I F L S F Q H L L R G K . D F W . I V G D K L H
hML4	101	L G A L Q S L L G T . . . Q G R T T A H K D P N A I F L S F Q H L L R G K . D F W . I V G D K L H
hML	151	C V R R A P P T T A V P S R T S L V L T L N E L P N R T S G L L E T N F T A S A R T T G S G L L K W
hML2	147	C V R R A P P T T A V P S R T S L V L T L N E L P N R T S G L L E T N F T A S A R T T G S G L L K W
hML3	149	C L S Q . . . . . N Y W L . . . . . W A S E V A A G I Q S Q D S W S A E P N L Q . .
hML4	145	C L S Q . . . . . N Y W L . . . . . W A S E V A A G I Q S Q D S W S A E P N L Q . .



**FIG. 11B**

hML	201	Q Q G F R A K I P G L L N Q T S R S L D Q I P G Y L N R I H E L L N G T R G L F P G P S R R T L G A
hML2	197	Q Q G F R A K I P G L L N Q T S R S L D Q I P G Y L N R I H E L L N G T R G L F P G P S R R T L G A
hML3	179	V P G P N P R I P . . . E Q D T R T L E W N S W T L S W T L T Q D P R S P G H F L R N I R H R L P A
hML4	175	V P G P N P R I P . . . E Q D T R T L E W N S W T L S W T L T Q D P R S P G H F L R N I R H R L P A
hML	251	P D I S S G T S D T G S L P P N L Q P G Y S P S P T H P P T G Q Y T L F P L P P T L P T P V V Q L H
hML2	247	P D I S S G T S D T G S L P P N L Q P G Y S P S P T H P P T G Q Y T L F P L P P T L P T P V V Q L H
hML3	226	T Q . . . . . P P A W I F S F P . . . . . N P S S Y W T V Y A L P S S . . . . .
hML4	222	T Q . . . . . P P A W I F S F P . . . . . N P S S Y W T V Y A L P S S . . . . .
hML	301	P L L P D P S A P T P T P T S P L L N T S Y T H S Q N L S Q E G
hML2	297	P L L P D P S A P T P T P T S P L L N T S Y T H S Q N L S Q E G
hML3	251	T H L A H P C G P A P P P A S . . . . .
hML4	247	T H L A H P C G P A P P P A S . . . . .

**FIG. 12A**



**FIG. 12B**

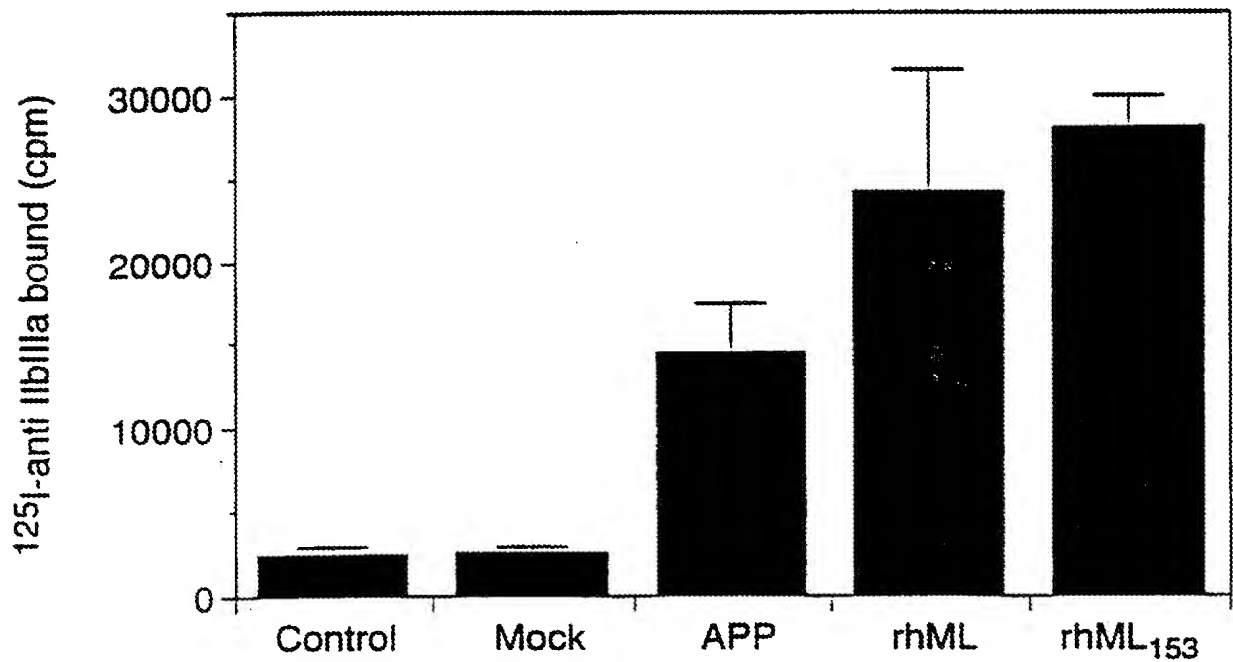


FIG. 12D

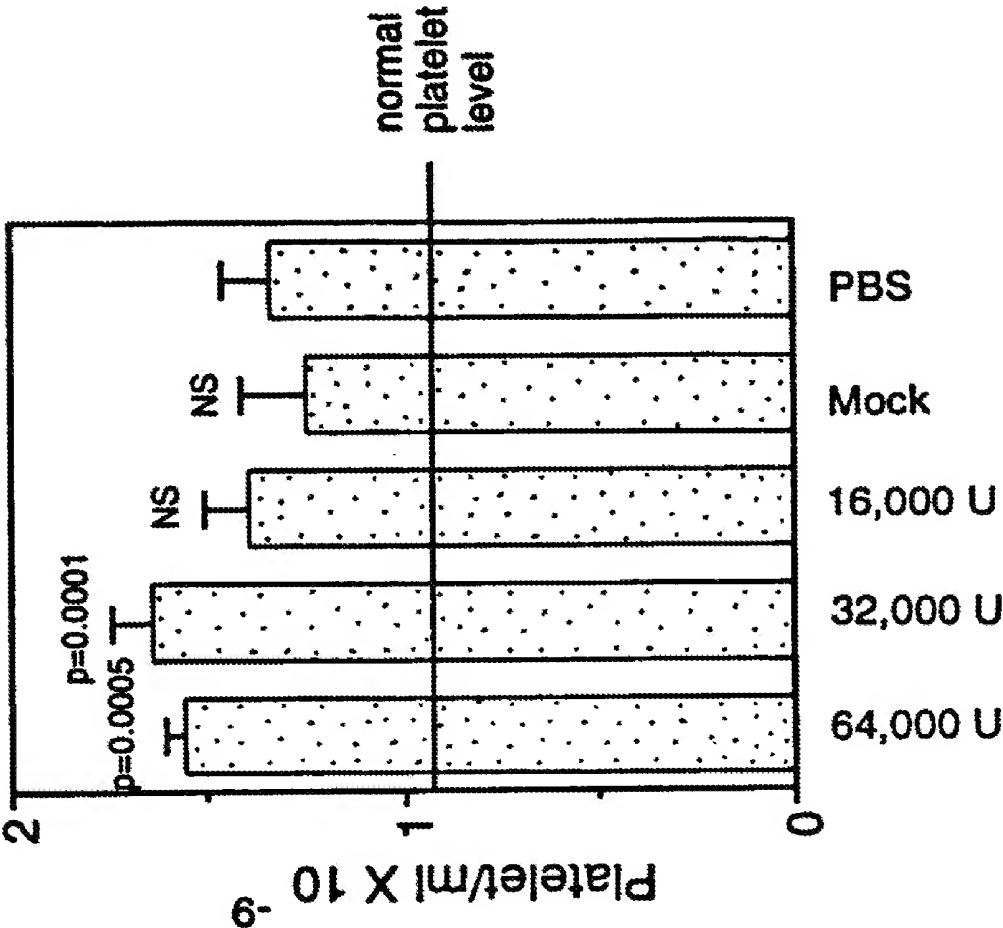
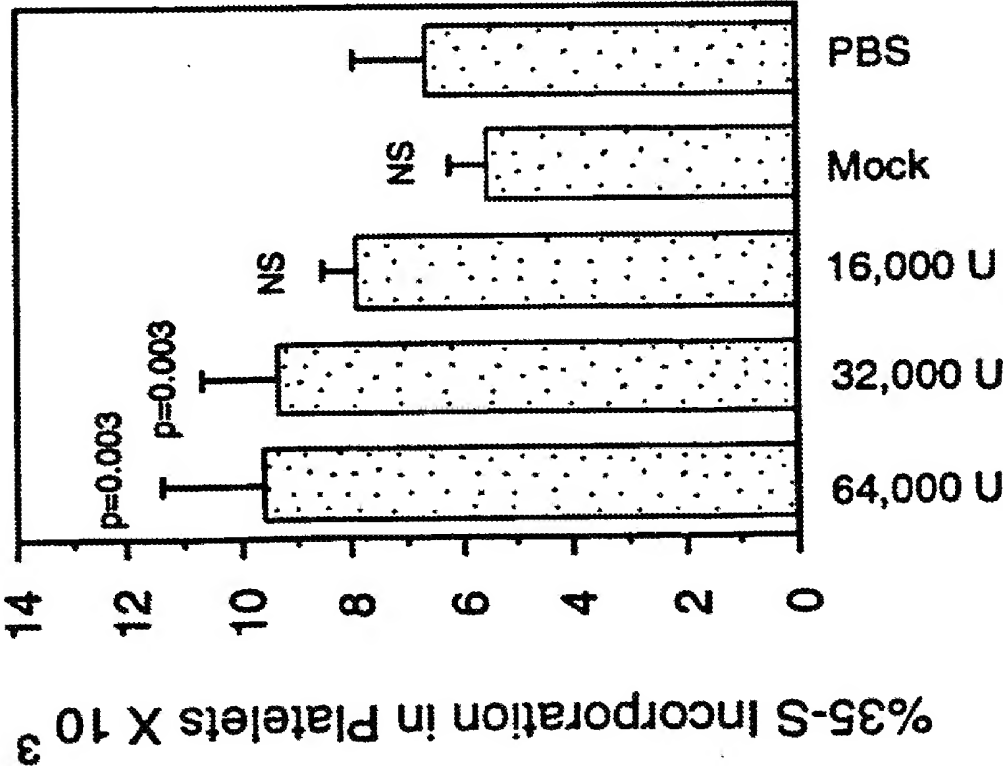


FIG. 12C



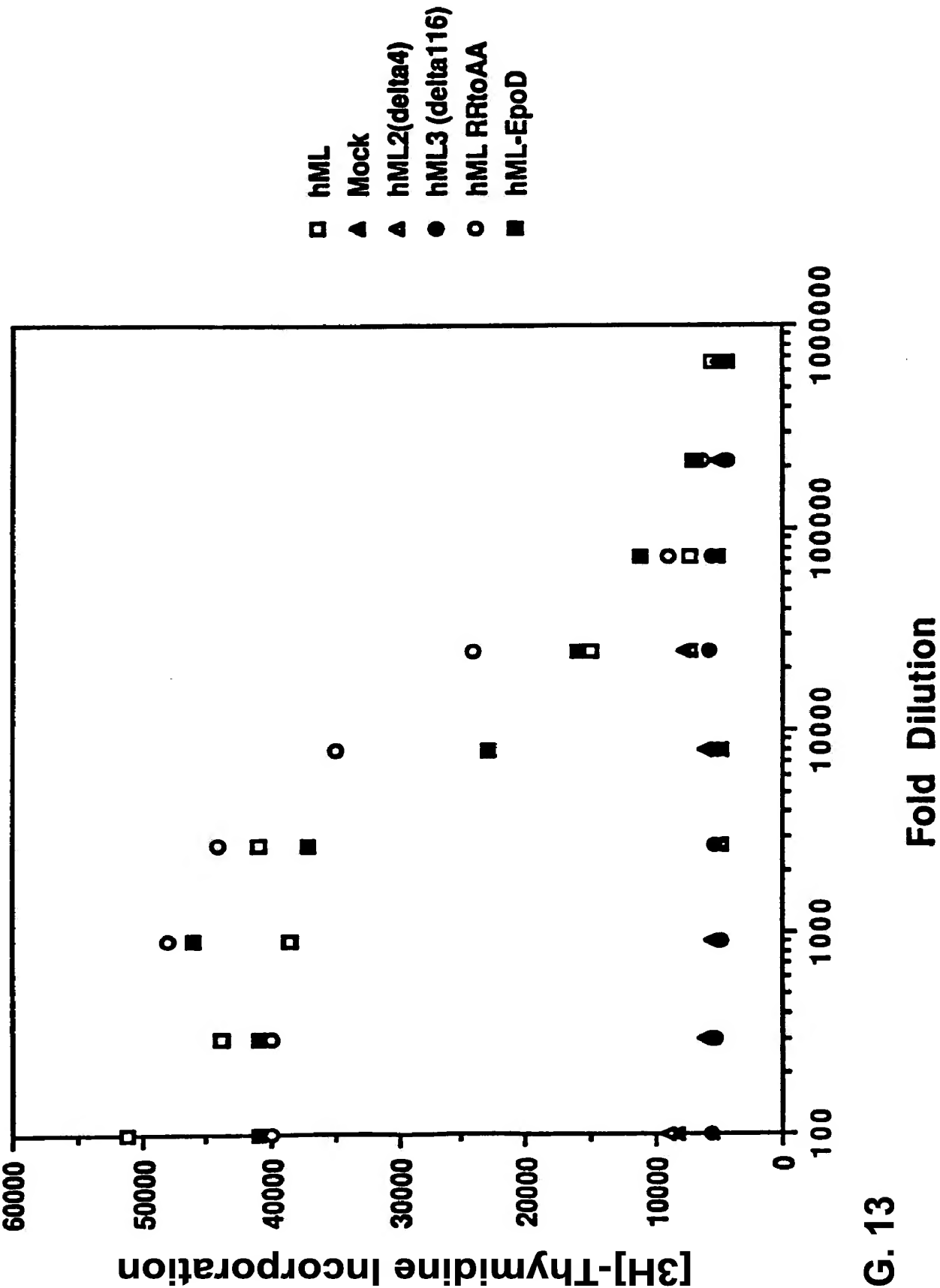


FIG. 13

FIG. 14

FIG.14A

1 GAGTCTCTTGG CCGACCTCTC TCCACGCCGA CTCTGCGAA AGAAGCACAG AACCTCAGCG CCGCTCCATG CCGCCACGAA AGATTTCAGGG GAGAGGCCCC  
 ↓  
 -10  
 Met GluLeuThra spleuLeuLe uAlaAlaMet LeuLeuAlav alaAlaArgLe uThrLeuSer  
 101 ATACAGCGAG CGACTTCAGT TAGACACCTT GGCACAGATG GAGCTGACTG ATTCTCTCTT GCGCGCCATG CTTTCTTCAG TCCCAAGACT AACTCTCTCC  
 20  
 SerProVala laProAlaCy sAspProArg LeuLeuAnL yLeuLeuAr gAspSerHis LeuLeuHis eArgLeuSe rGlnCysPro AspValAspPro  
 201 AGCCCCGTAG CTCTCTGCTG TCAACCCAGA CTCTTAATAA AACTCTCTCG TCACTCTCCAG CTCTCTTACA CCGACTCAG TCACTCTCCC GAGCTCGACC  
 30  
 LeuSeril eProValLeu LeuProAlav alaSpPheSe eLeuGlyGlu TrpLysThrG InThrGluG l nSerLysAla GlnAspIleL euGlyAlaVal  
 301 CTTTCTCTAT CCGCTCTTCTG CTCTCTGCTG TCGACTTTAG CTTCTGAGAA TCAAAACCC AGACCGAACA GAGCAACCCA CAGGACATTC TAGCGGCAGT  
 40  
 70 SerLeuLeu LeuGluGlyV alMetAlaAl aArgGlyGln LeuGluProS erCysLeuSe rSerLeuLeu GlyGlnLeuS eGlyGlnVa lArgLeuLeu  
 401 GTCCCTTCTA CTGAGCGAG TCAATGCAAG ACCAGGACAG TTGCAACCTT CTTCTCTCTC ATCCCTCTCT GACACGCTT CTGCGCAGGT TCGCTCTCTC  
 80  
 LeuGlyAlaL euGlnGlyLe uLeuGlyThr GlnGlyArgT hrThrAlaHi sLysAspPro AsnAlaLeuP heLeuSerLe uGlnGlnLeu LeuArgGlyLys  
 501 TTGGGGCCCC TCGAGGCTT CTTAGAACCC CAGCGCAGGA CCACACTCA CAGGACCCC AATGCCCTCT TCTTCAGCTT GCAACAACTG CTTTCGGGAA  
 110  
 ValArgPh eLeuLeuLeu ValGluGlyP roThrLeuCy sValArgArg ThrLeuProT hrThrAlaVa lProSerSer ThrSerGlnL euLeuThrLeu  
 601 AGTGCCTCTT CTTCTCTCTG GTAGAGGTC CGACCTCTG TCTGAGCG ACCCTGCA CACAGCTCT CCAAGACTT ACTTCTCAAC TCTCTCACT  
 120  
 130  
 140  
 150  
 160  
 170  
 180  
 190  
 200

FIG.14B

AsnLysPhe ProAnArgT hrSerGlyLe uLeuGluThr AsnPheSerV alThrAlaAr gThrAlaGly ProGlyLeuL euSerArgLe uGlnGlyPhe  
 701 AACACAGTTC CGAACAGGA CTCTCTGANTT GTTCGACAGC AGCTTCAGTG TCACAGCCAG AACTCTGCG CTTCTGACTC TCAAGCAGCT TCAGCGATTC  
 210  
 ArgValLysI leThrProGl yGlnLeuAn GlnThrSerA rgSerProVa lGlnIleSer GlyTyLeuA snArgThrHi sGlyProVal AsnGlyThrHis  
 801 AGAGTCAGGA TTACTCTCTG TCACTTAATT CAACCTTCCA GGTCCCATCT CCAAACTCT GATACCTCA ACAGACACA CCGACCTCTG AATGGAACTC  
 220  
 230  
 240  
 250  
 260  
 GlyLeuPh eAlaGlyThr SerLeuGlnT hrLeuGluAl aSerAspIle SerProGlyA laPheAnLy sGlySerLeu AlaPheAnL euGlnGlyGly  
 901 ATGGCTCTT TCGTGGAAC TCACTTCAGA CCGTGGAGC CTGAGACATC TCGCCCGAG CTTTCAGAA AGCTCTCTG GCAATTCACC TCCAGGCTG  
 270  
 280  
 290  
 300  
 LeuProPro SerProSerL euAlaProAs pGlyHisThr pPheProP roSerProAl aLeuProThr ThrHisGlys eProProGl nLeuHisPro  
 1001 ACTTCTCTCT TCTCCAGCC TTGCTCTCTG TCGACACACA CCGTCTCTCT CTTACCTCTG CTTGCCACC ACCCATGAT CTCCACCCCA GCTCCACCCC  
 310  
 320  
 330  
 LeuPheProA spProSerTh rThrMetPro AnSerThrA laProHisP roValThrMet TyProHisP roArgAnLe uSerGlnGlu Thr  
 1101 CTGTTTCTCTG ACCCTTCCAC CACCATGCTT AACTCTTACCG CCGCTCATTC AGTCACAAATG TACCTCTCAT CAGGAAATTT GTTCTCAGGA ACATAGCCCG  
 1201 GCGACTGCCC CAGTACGCTT CTGACAGTTC TCTCGCGAC AACCTTCCCC AGCAAGGCTG AGAGGAGCT GCATCTCTCT CAGATCTTCT GCTTTCACCT  
 1301 AAAAGGCTCT GCGGAAGGGA TACACAGCAC TCGAGATTTT AAAATTTTAG GAGCTATTTT TTTTAACTT ATCAGCAATA TTCAATCAG CAGCTAGCGA  
 1401 TCTTTCGCTT ATTTTCGCTA TAAATTTGAA AATCACTAAT TCT

FIG. 14A

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1  GAGTCTCTGG CCGACCTCTC TCCACCCGA CTCTGCCGA AGACGACAG AGCTCAAGC GCGCTCCATG GCGCCAGGAA AGATTGAGG GAGAGGCCCC
      -20      -10      ↓
101 ATACAGGGAG CCACTTCAGT TAGACACCT TAGACAGATG GAGCTCACTG ATTGCTCTCT GCGGCCCATG CTCTTCGAG TGGCAGACT AACTCTGTCC
      Met GluLeuThra sPLeuLeuL uAlaAlaMet LeuLeuAlaV alAlaArgL eUThrLeuSer
      20      30
      SerProValA laProAlaCy sAspProArg LeuLeuAsnL ysLeuLeuAr gAspSerHis LeuLeuHis eArGLeuSe rGlnCysPro AspValAspPro
201 AGCCCCGTAG CTCTGCTCTG TGACCCGAGA CTCTTAATAA AACTGCTCGG TGACTCCAC CTCTTCACA GCGGACTCAG TCAGTGTCG GAGCTCGACC
      40      50      60
      LeuSerIl eProValLeu LeuProAlaV alAspPheSe rLeuGlyGlu TrpLysThrG lnThrGluGl nSerLysAla GlnAspIleL euGlyAlaVal
301 CTCTGTCTAT CCTGTGTTCTG CTGCTGCTG TGACCTTTAG CCTGGGAGAA TGGAAAGCC AGACGGAAAC GAGCAAGCCA CAGGACATTC TAGGGCCAGT
      70      80      90      100
      SerLeuLeu LeuGluGlyV alMetAlaAl aArgGlyGln LeuGluProS erCysLeuSe rSerLeuLeu GlyGlnLeuS erGlyGlnVa lArgLeuLeu
401 GTCCCTTCTA CTGAGGGGAG TGATGCCAGC ACCAGGACAG TTGGAACCTT CCTGCCCTCT CCTGCCCTCT GACACAGCTT CTGGGCAGGT TCGCCTCTCTC
      110      120      130
      LeuGlyAlaL euGlnGlyLe uLeuGlyThr GlnGlyArgf hrThrAlaHi sLysAspPro AsnAlaLeuP heLeuSerLe uGlnGlnLeu LeuArgGlyLys
501 TTGGGGGCCC TGCAGGGCCT CCTAGCAACC CAGGGCAGGA CCACAGCTCA CAAGGACCCC AATGCCCTCT TCTTGAGCTT GCAACAACTG CTTGCGGGAA
      140      150      160
      ValArgPh eLeuLeuLeu ValGluGlyP roThrLeuCy sValArgArg ThrLeuProT hrThrAlaVa lProSerSer ThrSerGlnL euLeuThrLeu
601 AGGTGCGCTT CTGCTTCTG GTAGAGGTC CCACCTCTG TGTCAGAGCG ACCCTGCCAA CCACAGCTGT CCGAAGCAGT ACTTCTCAAC TCCTCAGACT

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FIG. 14B

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170      180      190      200
AsnLysPhe ProAsnArgT hrSerGlyLe uLeuGluThr AsnPheSerV alThrAlaLar gThrAlaGly ProGlyLeuL euSerArgLe uGlnGlyPhe
701 AAACAAGTTC CCAACAGGA CTCTCGATT GTTCGAGAGG AACTTCAGTG TCACAGCCAG AACTGCTGC CTGCACTTC TCACAGCCT TCAGCGATT
      210      220      230
ArgValLysI leThrProG1 yGlnLeuAsn GlnThrSera rgSerProVa lGlnIleSer GlyTyrlauA snArgThrHI sGlyProVal AsnGlyThrHis
801 AGAGTCAAGA TTACTCTCTG TCAGCTAAT CAACCTCCA GGTCTCCAGT CCAAATCTCT CGATACCTCA ACAGGACACA CGACCTGTG AATCGAATC
      240      250      260
GlyLeuPh eAlaGlyThr SerLeuGlnT hrLeuGluAl aSerAspIle SerProGlyA laPheAsnLy sGlySerLeu AlaPheAsnL euGlnGlyGly
901 ATGGGCTCTT TCCTGGAACC TCACCTTCAGA CCTGGGAAGC CTCAGACATC TCGCCCGAG CTTCACAA CA AGCTCCCTG GCATTCACCC TCACAGGCTG
      270      280      290      300
LeuProPro SerProSerL euAlaProAs pGlyHisThr ProPheProp roSerProAl aleuProThr ThrHisGlys erProProGl nLeuHisPro
1001 ACTTCTCTCT TCTCCAAGCC TTGCTCTCTGA TCGACACACA CCTTCCCTC CTTCACCTGC CTGCCCCACC ACCCATGGAT CTCCACCCCA GCTCCACCCC
      310      320      330
LeuPheProA spProSerTh rThrMetPro AsnSerThrA laProHisPr oValThrMet TyrProHisP roArgAsnLe uSerGlnGlu Thr
1101 CTCTTTTCTG ACCCTTCCAC CACCATGCTT AACTCTACCG CCCCCTCATCC AGTCACAATG TACCTTCATC CCAGGAATTT GTCTCAGGAA ACATAGCGCG
      340      350      360
1201 GGCACCTGSC CAGTCAGCGT CTGCAGCTTC TCTCGGGGAC AAGCTTCCCC AAGGAGGCTG GCATCTGCTC CAGATGTTCT GCTTTCACCT
      370      380      390
1301 AAAGGCGCCT GGGGAGCGGA TACACAGCAC TCGAGATTGT AAAATTTTAG GAGCTATTTT TTTTAACTT ATCAGCAATA TTCATCAGAG CAGCTAGCGA
      400      410      420
1401 TCTTTGCTCT ATTTTCGGTA TAAATTTGAA AATCACTAAT TCT

```

[illegible]





**FIG. 15B**

[illegible]

FIG. 16

hML3 1 SPAPACD LRVLSKLLRD SHV LHSRLSQCP EVHPLPTIPVLLPAVDFSLGE  
mML3 1 SPVAPACD PRL LN KLLRD SH LHSRLSQCP DV DPLS IPVLLPAVDFSLGE

hML3 51 WKTO MEETKAODILGAV TLLLEGVMAARGQLGPTCLSSLLGQLSGQVRLL  
mML3 51 WKTO TEQS KAODILGAVS LLLLEGVMAARGOLEPS CLSSLLGQLSGQVRLL

hML3 101 LGALQS LLGTQLPPQGRTTAHKDPNA IFLSFQHL LR GKDFWIVGDKLHCL  
mML3 101 LGALQG LLGTQLPLOGRTTAHKDPNAL FL SLQQL LR GKDFWIVGDE LQCH

hML3 151 SON YWLWASEVAAGIQSOD SWSAEPNLQVPGPNPIPEQDTRTLEWNSW  
mML3 151 SONC WPTSEQASGIQSODYSWSAKSNLQVPSPNLWIP EQDTRTCEWNSW

hML3 200 T LSW TLTQDPRS PGHFLRNIRHRLPATQPPAWIFSFPNPS SYWTXYALPS  
mML3 201 ALCWNLTS DP GSLRH LARSFQORLP GIQPPGWTS SF SKPC S

hML3 250 STHLAHPCGPAPPAS

FIG. 17

FIG.17A

m-ML	1	S	P	V	A	P	A	C	D	P	R	L	N	K	L	R	D	S	H	L	L	H	S	R	L	S	O	C	P	D	V	D	P	L	S	I	P	V	L	L	P	A	V	D	F	S	L	G	E		
p-ML	1	S	P	A	P	P	A	C	D	P	R	L	N	K	L	R	D	S	H	V	L	H	G	R	L	S	O	C	P	D	I	N	P	L	S	T	P	V	L	L	P	A	V	D	F	T	L	G	E		
h-ML	1	S	P	A	P	A	C	D	L	R	V	L	S	K	L	R	D	S	H	V	L	H	S	R	L	S	O	C	P	E	V	H	P	L	P	T	P	V	L	L	P	A	V	D	F	S	L	G	E		
m-ML	51	W	K	T	O	T	E	O	S	K	A	O	D	I	L	G	A	V	S	L	L	L	E	G	V	M	A	A	R	G	O	L	E	P	S	C	L	S	S	L	L	G	O	L	S	G	O	V	R	L	L
p-ML	51	W	K	T	O	T	E	O	T	K	A	O	D	V	L	G	A	T	T	L	L	L	E	A	V	M	T	A	R	G	O	V	G	P	P	C	L	S	S	L	L	V	O	L	S	G	O	V	R	L	L
h-ML	51	W	K	T	O	M	E	T	K	A	O	D	I	L	G	A	V	T	L	L	L	E	G	V	M	A	A	R	G	O	L	G	P	T	C	L	S	S	L	L	G	O	L	S	G	O	V	R	L	L	
m-ML	101	L	G	A	L	O	G	L	L	G	T	Q	L	P	L	Q	G	R	T	T	A	H	K	D	P	N	A	L	F	L	S	L	Q	Q	L	L	R	G	K	V	R	F	L	L	V	E	G	P	T	L	
p-ML	101	L	G	A	L	O	D	L	L	G	M	Q	L	P	P	Q	G	R	T	T	A	H	K	D	P	S	A	I	F	L	N	F	O	Q	L	L	R	G	K	V	R	F	L	L	V	G	P	S	L		
h-ML	101	L	G	A	L	O	S	L	L	G	T	Q	L	P	P	Q	G	R	T	T	A	H	K	D	P	N	A	I	F	L	S	F	O	H	L	L	R	G	K	V	R	F	L	M	L	V	G	S	T	L	

FIG.17B

m-ML	151	C	V	R	R	T	L	P	T	T	A	V	P	S	S	T	S	Q	L	L	T	L	N	K	F	P	N	R	T	S	G	L	L	E	T	N	F	S	V	T	A	R	T	A	G	P	G	L	L	S	R
p-ML	151	C	A	K	R	A	P	P	A	I	A	V	P	S	S	T	S	P	F	H	T	L	N	K	L	P	N	R	T	S	G	L	L	E	T	N	S	S	I	S	A	R	T	T	G	S	G	F	L	K	R
h-ML	151	C	V	R	R	A	P	P	T	T	A	V	P	S	R	T	S	L	V	L	T	L	N	E	L	P	N	R	T	S	G	L	L	E	T	N	F	I	A	S	A	R	T	T	G	S	G	L	L	K	W
m-ML	201	L	O	G	F	R	V	K	I	T	P	G	Q	L	N	O	T	S	R	S	P	V	Q	I	S	G	Y	L	N	R	T	H	G	P	V	N	G	I	H	G	L	F	A	G	T	S	L	O	T	L	E
p-ML	201	L	O	A	F	R	A	K	I	-	P	G	L	N	O	T	S	R	S	L	D	Q	I	P	G	H	Q	N	G	I	H	G	P	L	S	G	I	H	G	L	F	P	G	P	Q	P	G	A	L	G	
h-ML	201	Q	O	G	F	R	A	K	I	-	P	G	L	N	O	T	S	R	S	L	D	Q	I	P	G	Y	L	N	R	I	H	E	L	N	G	T	R	G	L	F	P	G	P	S	R	R	T	L	G		
m-ML	251	A	S	D	I	S	P	G	A	F	N	K	G	S	L	A	F	N	L	Q	G	L	P	P	S	P	S	L	A	P	D	G	H	-	T	P	F	P	P	S	P	A	L	P	T	H	G	S	P		
p-ML	250	A	P	D	I	P	A	T	S	G	M	G	S	R	P	T	Y	L	Q	P	G	E	S	P	S	P	A	H	P	S	P	G	R	Y	T	L	F	S	P	S	P	T	S	P	S	-	-	P	T		
h-ML	250	A	P	D	I	S	S	G	T	S	D	T	G	S	L	P	P	N	L	Q	P	G	Y	S	P	S	P	T	H	P	P	T	G	Q	Y	T	L	F	P	L	P	T	L	P	T	-	-	P	V		
m-ML	300	P	Q	L	H	P	L	F	P	D	P	S	T	M	P	N	S	T	A	P	H	P	V	T	M	Y	P	H	P	R	N	L	S	O	E	T															
p-ML	297	V	Q	L	Q	P	L	L	P	D	P	S	A	I	T	P	N	S	T	S	P	L	L	F	A	A	H	P	H	F	Q	N	L	S	O	E	E														
h-ML	297	V	Q	L	H	P	L	L	P	D	P	S	A	P	T	P	T	S	P	L	L	N	T	S	Y	T	H	S	Q	N	L	S	O	E	G																

FIG. 17A

m-ML	1	S	P	V	A	P	A	C	D	P	R	L	N	K	L	R	D	S	H	L	H	S	R	L	S	Q	C	P	D	V	D	P	L	S	I	P	V	L	L	P	A	V	D	F	S	L	G	E			
p-ML	1	S	P	A	P	P	A	C	D	P	R	L	N	K	L	R	D	S	H	V	L	H	G	R	L	S	Q	C	P	D	I	N	P	L	S	T	P	V	L	L	P	A	V	D	F	T	L	G	E		
h-ML	1	S	P	A	P	P	A	C	D	L	R	V	L	S	K	L	R	D	S	H	V	L	H	S	R	L	S	Q	C	P	E	V	H	P	L	P	T	P	V	L	L	P	A	V	D	F	S	L	G	E	
m-ML	51	W	K	T	Q	T	E	Q	S	K	A	Q	D	I	L	G	A	V	S	L	L	L	E	G	V	M	A	A	R	G	Q	L	E	P	S	C	L	S	S	L	L	G	Q	L	S	G	Q	V	R	L	L
p-ML	51	W	K	T	Q	T	E	Q	T	K	A	Q	D	V	L	G	A	T	T	L	L	L	E	A	V	M	T	A	R	G	Q	V	G	P	P	C	L	S	S	L	L	V	Q	L	S	G	Q	V	R	L	L
h-ML	51	W	K	T	Q	M	E	E	T	K	A	Q	D	I	L	G	A	V	T	L	L	L	E	G	V	M	A	A	R	G	Q	L	G	P	T	C	L	S	S	L	L	G	Q	L	S	G	Q	V	R	L	L
m-ML	101	L	G	A	L	Q	G	L	L	G	T	Q	L	P	L	Q	G	R	T	T	A	H	K	D	P	N	A	L	F	L	S	L	Q	Q	L	L	R	G	K	V	R	F	L	L	V	E	G	P	T	L	
p-ML	101	L	G	A	L	Q	D	L	L	G	M	Q	L	P	P	Q	G	R	T	T	A	H	K	D	P	S	A	I	F	L	N	F	Q	Q	L	L	R	G	K	V	R	F	L	L	V	V	G	P	S	L	
h-ML	101	L	G	A	L	Q	S	L	L	G	T	Q	L	P	P	Q	G	R	T	T	A	H	K	D	P	N	A	I	F	L	S	F	Q	H	L	L	R	G	K	V	R	F	L	M	L	V	G	S	T	L	

FIG.17B

m-ML	151	C	V	R	R	T	L	P	T	T	A	V	P	S	S	T	S	Q	L	T	L	N	K	F	P	N	R	T	S	G	L	L	E	T	N	F	S	V	T	A	R	T	A	G	P	G	L	L	S	R				
p-ML	151	C	A	K	R	A	P	P	A	I	A	V	P	S	S	T	S	P	F	H	T	L	N	K	L	P	N	R	T	S	G	L	L	E	T	N	S	I	S	A	R	T	T	G	S	G	F	L	K	R				
h-ML	151	C	V	R	R	A	P	P	T	T	A	V	P	S	R	T	S	L	V	L	T	L	N	E	L	P	N	R	T	S	G	L	L	E	T	N	F	T	A	S	A	R	T	T	G	S	G	L	L	K	W			
m-ML	201	L	O	G	F	R	V	K	I	T	P	G	Q	L	N	Q	T	S	R	S	P	V	Q	I	S	G	Y	L	N	R	T	H	G	P	V	N	G	T	H	G	L	F	A	G	T	S	L	Q	T	L	E			
p-ML	201	L	Q	A	F	R	A	K	I	-	P	G	L	L	N	Q	T	S	R	S	L	D	Q	I	P	G	H	Q	N	G	T	H	G	P	L	S	G	I	H	G	L	F	P	G	P	Q	P	G	A	L	G			
h-ML	201	Q	Q	G	F	R	A	K	I	-	P	G	L	L	N	Q	T	S	R	S	L	D	Q	I	P	G	Y	L	N	R	I	H	E	L	L	N	G	T	R	G	L	F	P	G	P	S	R	R	T	L	G			
m-ML	251	A	S	D	I	S	P	G	A	F	N	K	G	S	L	A	F	N	L	Q	G	G	L	P	P	S	P	S	L	A	P	D	G	H	-	T	P	F	P	P	S	P	A	L	P	T	T	H	G	S	P			
p-ML	250	A	P	D	I	P	A	T	S	G	M	G	S	R	P	T	Y	L	Q	P	G	E	S	P	S	P	A	H	P	S	P	A	H	P	S	P	G	R	Y	T	L	F	S	P	S	P	T	S	P	S	-	-	P	T
h-ML	250	A	P	D	I	S	G	T	S	D	T	G	S	L	P	P	N	L	Q	P	G	Y	S	P	S	P	T	H	P	P	T	H	P	P	T	G	Q	Y	T	L	F	P	L	P	P	T	L	P	T	-	-	-	P	V
m-ML	300	P	Q	L	H	P	L	F	P	D	P	S	T	T	M	P	N	S	T	A	P	H	P	V	T	M	Y	P	H	P	R	N	L	S	Q	E	T																	
p-ML	297	V	Q	L	Q	P	L	L	P	D	P	S	A	I	T	P	N	S	T	S	P	L	L	F	A	A	H	P	H	F	Q	N	L	S	Q	E	E																	
h-ML	297	V	Q	L	H	P	L	L	P	D	P	S	A	P	T	P	T	S	P	L	L	N	T	S	Y	T	H	S	Q	N	L	S	Q	E	G																			

**FIG. 18B**

**8B**

LeuGlnAlaPheArgAlaLysIleProGlyLeuLeuAsnGlnThrSerArgSerLeuAspGlnIleProGlyHisGlnAsnGlyThrHisGlyProLeuSer  
601 CTGCAGGCATTACAGGCCAAGAATCTCGTGTCGTGAACCAACTCCAGGTCCCAGACCATAATCCTCGCACACCAGAATGGGACACACGGACCCCTTGA 230

GlyIleHisGlyLeuPheProGlyProGlnProGlyAlaLeuGlyAlaProAspIleProProAlaThrSerGlyMetGlySerArgProThrTyrlau  
701 GTGGAATCATGGACTCTTTCTCGGACCCCCAACCCGGGGCCCTCGGAGCTCCAGACATTCCTCCAGCAACTTCAGGCATGGGCTCCCGGCCAACCTACCT 240 250 260

GlnProGlyGluSerProSerProAlaHisProSerProGlyArgTyrThrLeuPheSerProSerProThrSerProSerProThrValGlnLeuGln  
801 CCAGCTGGAGAGTCTCTCCAGCTCACCTTCTCTCTGGACGATACACTCTCTCTCTCTCCCTCACCCACCTCGCCCTCCCCACAGTCCAGCTCCAG 270 280 290 300

ProLeuLeuProAspProSerAlaIleThrProAsnSerThrSerProLeuLeuPheAlaAlaHisProHisPheGlnAsnLeuSerGlnGluGlu  
901 CCTCTGCTTCTGTACCCCTCTGGGATCACACCCAACCTTACCAGTCTCTTCTATTGGAGCTCACCTCTCATTTCCAGAACTGTCTCAGGAAGAGTAAG 310 320 330

1001 GTGCTCAGACCCCTGGCCAACCTTCAGCA

**FIG.18A**

	10	20	30
SerProAlaProProAlaCysAspProArgLeuLeuAsnLysLeuLeuArgAspSerHisValLeuHisGlyArgLeuSerGlnCysProAspIleAsnPro			
1 AGCCCGGCTCCTTCCTGCTGTGACCCCGACTCCTAAATAAACTGCTTCGTGACTCCCATGTCCTTCACGGCAGACTGAGCCAGTGCCCGACACATTAAACC			
	40	50	60
LeuSerThrProValLeuLeuProAlaValAspPheThrLeuGlyGluTrpLysThrGlnThrGluGlnThrLysAlaGlnAspValLeuGlyAlaThr			
101 CTTTGTCCACACCTGTCTCCTGCTGTGACCTTCACCTTGGGAGAAATGGAAACCCAGACGGAGCAGACAAAGGCACAGGATGTCTCTGGGAGCCAC			
	70	80	90
ThrLeuLeuLeuGluAlaValMetThrAlaArgGlyGlnValGlyProProCysLeuSerSerLeuLeuValGlnLeuSerGlyGlnValArgLeuLeu			
201 AACCTTCTGCTGGAGGCCAGTGATGACAGCACGGGGACAAAGTGGGACCCCTTGCTCTCATCCCTGCTGGTGCAGCTTCTCGGACAGGTTCCGCTCCCTC			
	110	120	130
LeuGlyAlaLeuGlnAspLeuLeuGlyMetGlnLeuProProGlnGlyArgThrThrAlaHisLysAspProSerAlaIlePheLeuAsnPheGlnGlnLeu			
301 CTCGGGGCCCTGCAGGACCTCCTTGGAAATGCAGCTTCCTCCACAGGGAAGGACCACAGCTCACAGGATCCAGTGCCCATCTTCTCGAACTTCCAACAAC			
	140	150	160
LeuArgGlyLysValArgPheLeuLeuLeuValValGlyProSerLeuCysAlaLysArgAlaProProAlaIleAlaValProSerSerThrSerPro			
401 TGCTCCGAGGAAAGGTGCGTTTCTGCTCCTTGTAGTGGGGCCCTCCCTCTGTGCCAAGAGGGCCCCACCCGCCCATAGCTGTGCCGAGCAGCACCTCTCTCC			
	170	180	190
PheHisThrLeuAsnLysLeuProAsnArgThrSerGlyLeuLeuGluThrAsnSerSerIleSerAlaArgThrThrGlySerGlyPheLeuLysArg			
501 ATTCCACACACTGAACAAGCTCCCAACACAGGACCTCTGGATTGTTGGAGACAAACTCCAGTATCTCAGCCAGAACTACTGGCTCTGGATTCTCAAGAGG			



FIG. 18B

	210	220	230
	LeuGlnAlaPheArgAlaIysIleProGlyLeuLeuAsnGlnThrSerArgSerLeuAspGlnIleProGlyHisGlnAsnGlyThrHisGlyProLeuSer		
601	CTGCAGGCATTTCAGAGCCCAAGATTCTCGTCTGCTGAACCAACCTCCAGGTCCCTAGACCAATAATCCCTGGACACACCAGAAATGGGACACACACGGACCCCTTGA		
	240	250	260
	GlyIleHisGlyLeuPheProGlyProGlnProGlyAlaLeuGlyAlaProAspIleProProAlaThrSerGlyMetGlySerArgProThrTyrLeu		
701	GTGGAATTTCATGGACTCTTTCTGGACCCCAACCCGGGGCCCTCGGAGCTCCAGACATTCTCCAGCAACTTCAGGCATGGGCTCCCCGGCCCAACCTACCT		
	270	280	290
	GlnProGlyGluSerProSerProAlaHisProSerProGlyArgTyrThrLeuPheSerProSerProThrSerProSerProThrValGlnLeuGln		
801	CCAGCCTGGAGAGTCTCCTTCCCCAGCTCACCCCTTCTCCTGGACGATACACTCTCTTCTCTCTTACCCACCTCGCCCTCCCCACAGTCCAGCTCCAG		
	310	320	330
	ProLeuLeuProAspProSerAlaIleThrProAsnSerThrSerProLeuLeuPheAlaAlaHisProHisPheGlnAsnLeuSerGlnGluGlu		
901	CCTCTGCTTCTGACCCCTCTGCGATCACACCCCAACTCTACCCAGTCTCTTCTATTGTCAGCTCACCCCTCATTTCCAGAACCTGTCTTCAGGAAGAGTAAG		
1001	GTGCTCAGACCCCTGCCAACTTCAGCA		

**FIG.19B**

3  
170 AsnLysLeuProAsnArgThrSerGlyLeuLeuGluThrAsnSerSerIleSerAlaArgThrGlySerGlyPheLeuLysArgLeuGlnAlaPhe 200  
501 GAACAAGCTCCCAACAGGACCTTCGATGTGGAGACAAACTCCAGTATCTCAGCCAGAACTACTGGCTCTGGATTCTCAAGAGGCTGCAGGCATTTC 190  
210 ArgAlaLysIleProGlyLeuLeuAsnGlnThrSerArgSerLeuAspGlnIleProGlyHisGlnAsnGlyThrHisGlyProLeuSerGlyIleHisGly 230  
601 AGAGCAAGATTCTGCTGCTGAACCAAACTCCAGGTCCCTAGACCAAAATCCCTGGACACCAGAAATGGGACACACGAGACCCCTTGAGTGSAAATTCATG 220  
240 LeuPheProGlyProGlnProGlyAlaLeuGlyAlaProAspIleProProAlaThrSerGlyMetGlySerArgProThrTyrLeuGlnProGlyGlu 260  
701 GACTCTTTCTGGACCCCAACCGGGGCCCTCGAGCTCCAGACATCTCTCCAGCAACTTCAGGCATGGGCTCCCGGCCAACCTACCTCCAGCCTGGAGA 250  
270 SerProSerProAlaHisProSerProGlyArgTyrThrLeuPheSerProSerProThrSerProThrValGlnLeuGlnProLeuLeuPro 290  
801 GTCTCCTTCCCAGCTCACCCCTTCTCCTGGACGATACACTCTCTCTCTCTCTCCACCACTCGCCCTCCCCACAGTCCAGCTCCAGCCTCTGCTTCTCT 300  
310 AspProSerAlaIleThrProAsnSerThrSerProLeuLeuPheAlaAlaHisProHisPheGlnAsnLeuSerGlnGluGlu 320  
901 GACCCCTCTGCGATCACACCCAACTCTACCAAGTCTCTTCTATTTGAGCTCACCCCTCAATTCCAGAACCTGTCTCAGGAAGAGTAAGGTGCTCAGACCCC 330  
1001 TGCCCAACTTCAGCA

FIG. 19A

	10	20	30
SerProAlaProProAlaCysAspProArgLeuLeuAsnLysLeuLeuArgAspSerHisValLeuHisGlyArgLeuSerGlnCysProAspIleAsnPro			
1	AGCCCGGCTCCTCCTGCTGTGACCCCGACTCCTAAATAAACTGCTTCGTGACTCCCATGTCTTCACGGCAGACTGAGCCAGTGCACATTAACC		
	40	50	60
LeuSerThrProValLeuLeuProAlaValAspPheThrLeuGlyGluTrpLysThrGlnThrGluGlnThrLysAlaGlnAspValLeuGlyAlaThr			
101	CTTTGTCCACACCTGTCTCCTGCTGTGCTGTGACTTCACCTTGGGGAGAAATGGAAACCCAGACGGAGCAGACAAAGGCACAGGATGTCTCTGGGAGCCAC		
	70	80	90
ThrLeuLeuLeuGluAlaValMetThrAlaArgGlyGlnValGlyProProCysLeuSerSerLeuLeuValGlnLeuSerGlyGlnValArgLeuLeu			
201	AACCCCTTCTGCTGGAGGCAGTGATGACAGCACGGGGACAAGTGGGACCCCTTGCCCTCTCATCCCTGCTGGTGCAGCTTTCTTGGACAGGTTCCGCTCCTC		
	110	120	130
LeuGlyAlaLeuGlnAspLeuLeuGlyMetGlnGlyArgThrThrAlaHisLysAspProSerAlaIlePheLeuAsnPheGlnGlnLeuLeuArgGlyLys			
301	CTCGGGGCCCCGACGACCTCCTTGGAAATGCAGGGAAGGACCCACAGCTCACAAAGGATCCCAGTGCCCATCTTCTCTGAACCTTCCCAACAACACTGCTCCGAGGAA		
	140	150	160
ValArgPheLeuLeuLeuValValGlyProSerLeuCysAlaLysArgAlaProProAlaIleAlaValProSerSerThrSerProPheHisThrLeu			
401	AGGTGCGTTTCTCCTCTGTAGTGGGGCCCCCTCCCTCTGTGCCCAAGAGGGCCCCACCCGCCCATAGCTGTCTCCGAGCAGCACCTCTCCATTCCACACACT		

FIG. 19B

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170                                     180                                     190                                     200
AsnLysLeuProAsnArgThrSerGlyLeuLeuGluThrAsnSerSerIleSerAlaArgThrThrGlySerGlyPheLeuLysArgLeuGlnAlaPhe
501 GAACAAGCTCCCAACAGGACCTCTGGATTGTTGGAGACAAACTCCAGTATCTCAGCCAGAACTACTGGCTCTGGATTCTCAAGAGGCTGCAGGCATTTC

210                                     220                                     230
ArgAlaLysIleProGlyLeuLeuAsnGlnThrSerArgSerLeuAspGlnIleProGlyHisGlnAsnGlyThrHisGlyProLeuSerGlyIleHisGly
601 AGAGCCAAAGATTCTGGTCTGCTGAACCAACCTCCAGGTCCCTAGACCAAAATCCCTGGACACCCAGAAATGGGACACACACGGACCCCTTGAGTGGAAATTTCATG

240                                     250                                     260
LeuPheProGlyProGlnProGlyAlaLeuGlyAlaProAspIleProProAlaThrSerGlyMetGlySerArgProThrTyrLeuGlnProGlyGlu
701 GACTCTTTCTGGACCCCAACCCGGGGCCCTCGGAGCTCCAGACATTCTCTCCAGCAACTTCAGGCATGGGCTCCCGGCCAACCTACCTCCAGCCTGGAGA

270                                     280                                     290                                     300
SerProSerProAlaHisProSerProGlyArgTyrThrLeuPheSerProSerProThrSerProSerProThrValGlnLeuGlnProLeuLeuPro
801 GTCTCCTTCCCCAGCTCACCTTCTCCTGGACGATACACTCTCTTCTCTCTCCTTACCCACCTCGCCCTCCCCACAGTCCAGCTCCAGCCTCTGCTTCCT

310                                     320
AspProSerAlaIleThrProAsnSerThrSerProLeuLeuPheAlaAlaHisProHisPheGlnAsnLeuSerGlnGluGlu
901 GACCCCTCTGGGATCACACCCCAACTCTACCAAGTCCCTCTTCTATTGTCAGCTCACCCCTCATTTTCCAGAACCTGTCTCAGGAAGAGTAAGGTGCTCAGACCC

1001 TGCCAACTTCAGCA

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FIG. 20

FIG.20A

pML	1	SPAPPACOPRLLNKLLRDSHVLHGRLSQCPDINPLSTPVL LPAVDFTLGE
pML2	1	SPAPPACOPRLLNKLLRDSHVLHGRLSQCPDINPLSTPVL LPAVDFTLGE
pML	51	WKTQTEOTKAODVLGATTL LLEAVMTARGOVGPPCLSSLLVQLSGOVRLL
pML2	51	WKTQTEOTKAODVLGATTL LLEAVMTARGOVGPPCLSSLLVQLSGOVRLL
pML	101	LGALQD L L LGMOLPP
pML2	101	LGALQD L L LGM . . .

FIG.20B

pML	151	CAKRAPPAIAVPSSSTSPFH TLNKL PNR TSGLLE TNSSISARTTGS GFLKR
pML2	147	CAKRAPPAIAVPSSSTSPFH TLNKL PNR TSGLLE TNSSISARTTGS GFLKR
pML	201	LQAFRAKIPG L LNOTSRSLDQIPGHONGTHGPLSGIHGLFPGPQPGALGA
pML2	197	LQAFRAKIPG L LNOTSRSLDQIPGHONGTHGPLSGIHGLFPGPQPGALGA
pML	251	PDIPPATSGMGSRPTYLOPGESPSPAHPSPGRYTLFSPSPTSPTSPTVQLQ
pML2	247	PDIPPATSGMGSRPTYLOPGESPSPAHPSPGRYTLFSPSPTSPTSPTVQLQ
pML	301	PLLPDPSAITPNSTSP L LFAAHPHFONLSQEE
pML2	297	PLLPDPSAITPNSTSP L LFAAHPHFONLSQEE

FIG. 20A

pML	1	SPAPPACDPRLLNKLLRDSHVLHGRLSQCPDINPLSTPVLPAVDFTLGE
pML2	1	SPAPPACDPRLLNKLLRDSHVLHGRLSQCPDINPLSTPVLPAVDFTLGE

pML	51	WKTQTEQTKAODVLGATTLLLEAVMTARGOVGPPCLSSLLVQLSGOVRLL
pML2	51	WKTQTEQTKAODVLGATTLLLEAVMTARGOVGPPCLSSLLVQLSGOVRLL

pML	101	LGALQDILLGMOLPPPQGRTTAHKDPSAIFLNFOQLLRGKVRFLLLVVGPSL
pML2	101	LGALQDILLGM.....QGRTTAHKDPSAIFLNFOQLLRGKVRFLLLVVGPSL

FIG. 20B

pML	151	CAKRAPPAAIAVPSSSTSPFFHTLNLKLPNRTSGLLETNSSISARTTGSGFLKR
pML2	167	CAKRAPPAAIAVPSSSTSPFFHTLNLKLPNRTSGLLETNSSISARTTGSGFLKR
pML	201	LOAFRAKIPGLLNQTSRSLDOQIPGHONGTHGPLSGIHGLFPGPQPGALGA
pML2	197	LOAFRAKIPGLLNQTSRSLDOQIPGHONGTHGPLSGIHGLFPGPQPGALGA
pML	251	PDIPPATSGMGSRPTYLQPGESPSPAHPSPGRYTLFSPSPTSPTSPTVQLO
pML2	247	PDIPPATSGMGSRPTYLQPGESPSPAHPSPGRYTLFSPSPTSPTSPTVQLO
pML	301	PLLPOPSAITPNSTSPILLFAAHPHFQNL SQEE
pML2	297	PLLPOPSAITPNSTSPILLFAAHPHFQNL SQEE